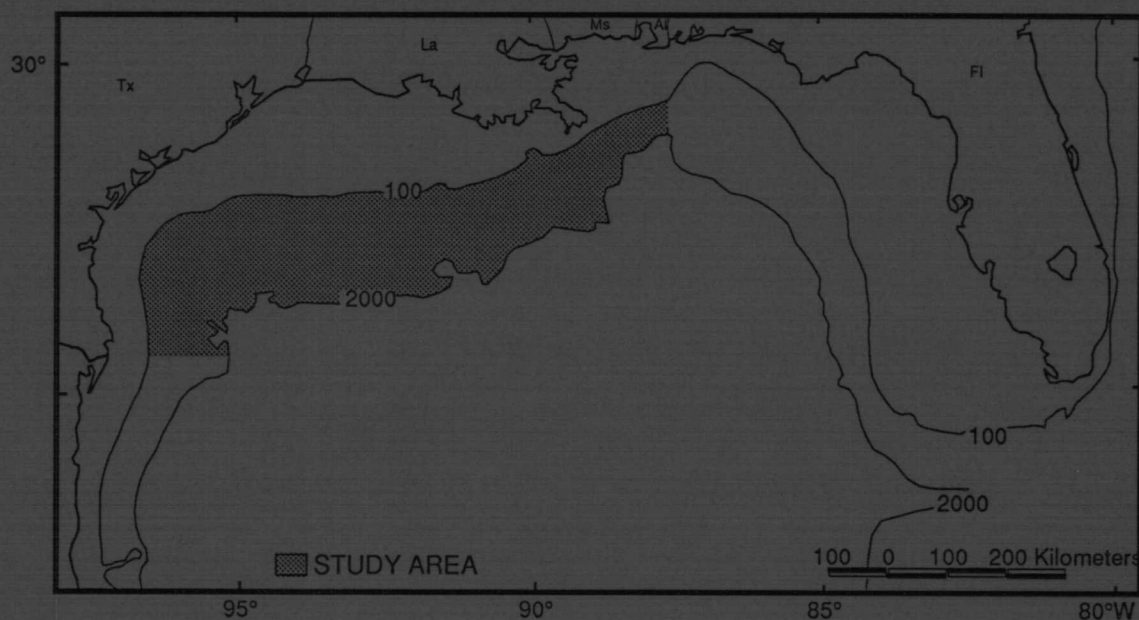


GULFCET CRUISE 05 HYDROGRAPHIC DATA

XBT, CTD, AND NISKIN BOTTLE DATA FROM MAY 23-
JUNE 5, 1993 CRUISE ON R/V *PELICAN*



Technical Report 94-01-T of the Department of Marine Biology
Texas A&M University at Galveston, Galveston, Texas 77553

Prepared for the U.S. Minerals Management Service by the Data
Management Office of the GulfCet project, under contract number
14-35-0001-30619

January 1994

Gabriella Soro Fargion

G.S. Fargion,
Technical Editor

Randall Davis

R.W. Davis,
Program Manager, GulfCet

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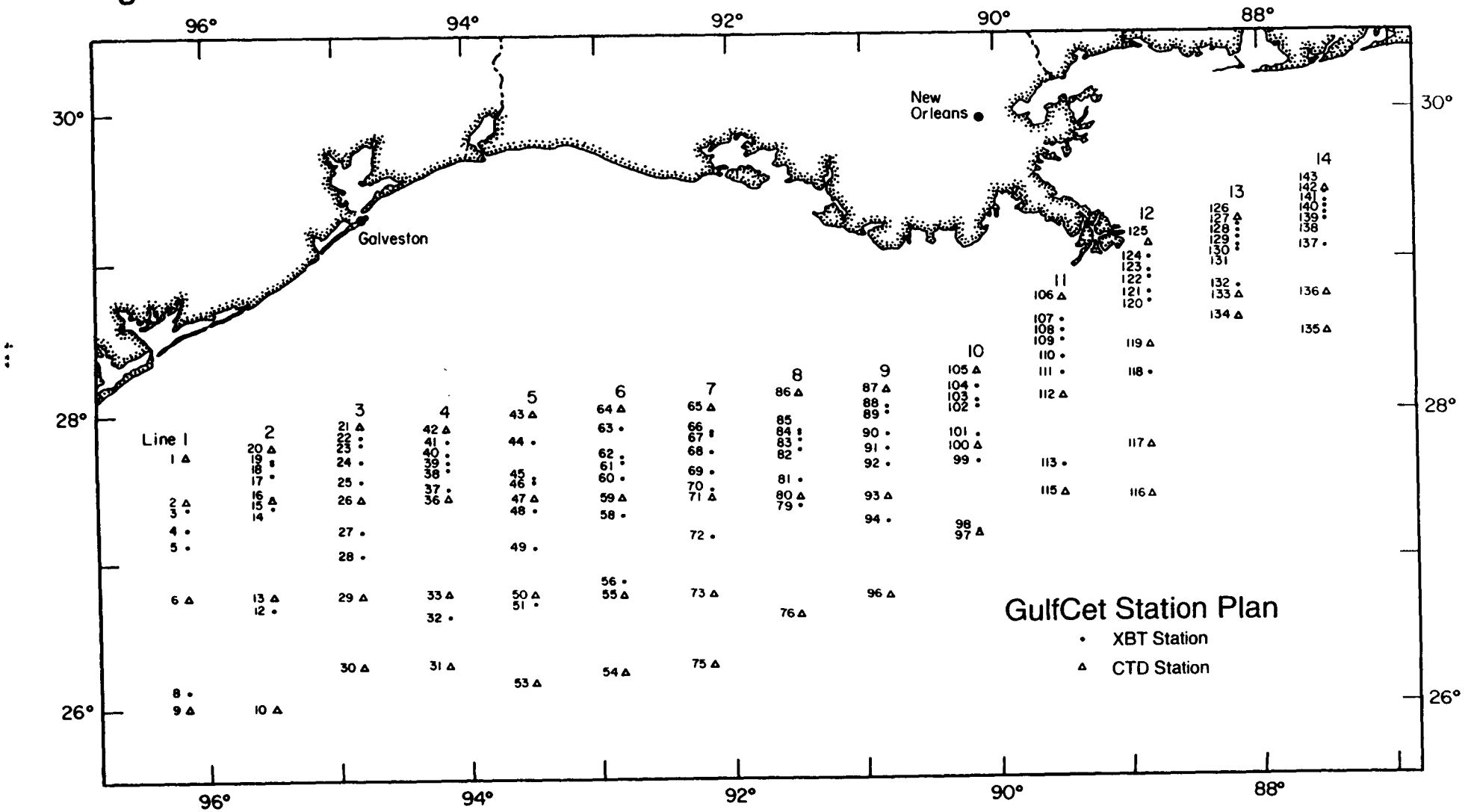
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CONTENTS

Introduction.....	1
Standard Procedures.....	1
Tabulated Data.....	2
Literature Cited.....	4
Personnel.....	5
Expendable Bathythermograph (XBT) Data.....	7
Conductivity/Temperature/Depth (CTD) Data.....	45
Continuously Recording Data.....	111
Temperature Data.....	115
Salinity Data.....	131
Appendix A: Station Positions.....	135
Appendix B: Temperature and Salinity	139

Figure 1. GulfCet Station Plan: XBT and CTD Stations



INTRODUCTION

The data presented in this report were collected to satisfy, in part, the objectives of Mineral Management Service (MMS) contract number 14-35-0001-30619, "Distribution and Abundance of Marine Mammals in the North-Central and Western Gulf of Mexico." This program includes aerial, acoustic, visual, and hydrographic surveys, a sperm whale tagging and tracking program, and a remote sensing survey. The program involves the combined efforts of Texas A&M University at Galveston (TAMUG), Texas Institute of Oceanography (TIO), Texas A&M University at College Station (TAMU), the National Marine Fisheries Service (NMFS) at the Southeast Fisheries Science Center, and Oregon State University's Hatfield Marine Science Center. This MMS program, named GulfCet, is designed to ascertain the distribution, abundance, seasonality, and movement patterns of cetaceans along the continental slope from the Florida-Alabama border to the Texas-Mexico border between the 100 and 2000 meter isobaths.

The GulfCet program participates in four TAMU sponsored cruises per year, one cruise per season, for two of the three years of the contract period. These data were collected on the fifth TAMU GulfCet cruise, a thirteen day spring cruise, May 23-June 4, 1993, aboard the Louisiana Universities Marine Consortium (LUMCON) ship, R/V *Pelican*. This cruise had a threefold purpose: a visual survey of marine mammals, a continuously recording acoustic survey, and a hydrographic survey. A transect consisting of twelve North-South track lines (Figure 1) was followed during the cruise. Track lines 1 and 2 were dropped from the station plan following a GulfCet cruise evaluation. The stations were sampled in reverse order, beginning with line 14, station 143.

Data from the hydrographic survey are presented in this report. Requests for data should be sent to the Minerals Management Service at the Gulf of Mexico Regional OCS Office in New Orleans, or via Dr. Giulietta Fargion, GulfCet DMO, TAMUG, Galveston, Texas, (OMNET/ G. Fargion). The data in this report are available in digital form.

STANDARD PROCEDURES

Data in this report were obtained with CTD lowerings, rosette casts, XBT deployments, and LUMCON's continuously recording proprietary system, Multiple Interface Data Acquisition System (MIDAS) (Walser, et al., 1992). Sea-Bird Electronics SBE 9 Plus CTD was used on this cruise, and lowered to the sea floor, or to a maximum depth of 500 m. Sparton of Canada XBT probes, hardware, and software, along with Sippican's XBT launcher were also used. A rosette holding 12 5-liter Niskin bottles was lowered with the CTD.

Expendable Bathythermograph (XBT) Data:

XBT's (Appendix A, Table 1) were launched at the depths of 200, 350, 500, 800, 1000, and 1500 meters along each track line, using T-7, T-10, and T-20 XBT probes.

Conductivity/Temperature/Depth (CTD) Data:

CTD stations (see Appendix A, Table 2) were located at the 100 and 2000 m isobaths (except at the Mexican border), and at 40 nautical mile intervals along each track line. Vertical profiles of salinity, temperature, oxygen, beam attenuation coefficient (transmissometry), and in situ fluorescence were measured at every station.

The CTD temperature, pressure, dissolved oxygen, and conductivity sensors are calibrated semi-annually at Sea-Bird Electronics.

Continuous Recording Data:

A continuous recording of navigation data, surface hydrographic data (salinity, temperature, fluorescence, light transmission, and sea water flow rate), meteorological data (wind speed, wind

direction, air temperature, barometric pressure, and solar irradiance) were collected with the MIDAS system. The MIDAS system sampling rate is an average of every fifteen seconds. This system uses Sea-Bird Electronics' conductivity and temperature sensors, a Turner fluorometer, and a Sea Tech, Inc. transmissometer. The conductivity-temperature sensor on the MIDAS is calibrated annually at Sea-Bird Electronics.

Rosette Cast Data:

The rosette was lowered with the CTD at all designated stations. The bottles were closed on the upcast, and three water samples were collected at each station. Three chlorophyll samples were taken at each CTD station: one sample was collected from the surface bottle, one sample was collected from the bottle tripped at the chlorophyll maximum (as detected on the fluorometer), and the third sample was collected either at the midpoint of the chlorophyll profile, or at the bottom depth on the shallower casts. Two salinity samples were collected from the surface and deepest bottles.

Salinity samples were analyzed at TAMU, using a Guildline Conductivity Coupled Salinometer (model number 8400A). The Salinometer was standardized with Wormley Standard Seawater. Salinity values are reported to four decimal places.

Chlorophyll samples were filtered on board and kept under liquid nitrogen until return to shore. The chlorophyll data are not presented in this report, but will be reported in a later technical report.

TABULATED DATA

The "start time" for hydrographic casts is Central Standard Time. Bottom depth was determined acoustically (DATA SONIC SBT 220), but in some cases the depth was estimated from bathymetric charts.

Expendable Bathythermograph (XBT) Data:

Raw frequency data were processed with an in-house conversion program using Sparton's drop rates (Sparton of Canada, 1992). The processed XBT data were interpolated using a program developed at Scripps Institute of Oceanography. Interpolations are at 1 m. steps, and data are listed at 10 m. intervals. Probe failures occurred at stations 03-028, 04-037, 13-129, and 14-141. Three extra XBT probes were deployed at marine mammal sightings. The extra probes are listed by their corresponding track line number followed by EX.

Figure 2 in Appendix B shows a plot of the surface temperature values taken from the MIDAS versus those taken from the XBT's.

Conductivity/Temperature/Depth (CTD) Data:

CTD data are tabulated to "standard levels" (UNESCO, 1991). The CTD data were acquired at 24 Hz and processed using Sea-Bird's Seasoft software (version 4.015, Sea-Bird Electronics, 1992).

The following CTD data processing steps were used:

- | | |
|---------------------|---|
| 1. DATCNV | Converts raw data to binary engineering units and stores data in CNV files. |
| 2. SPLIT | Splits the CNV files into upcast and downcast files. |
| 3. WILDEDIT | Checks for and marks 'wild' data points. |
| 4. FILTER | Filters data columns to produce zero phase time shifts. |
| 5. ALIGNCTD | Aligns specific temperature, conductivity, and oxygen measurements with their corresponding pressure measurement. |
| 6. In-house program | Converts temperature to ITS-90 scale (UNESCO, 1991). |
| 7. CELLTM | Removes conductivity cell thermal mass effects from conductivity data. |
| 8. LOOPEDIT | Marks the scan where CTD is moving less than the minimum velocity or traveling backwards due to ship roll. |
| 9. DERIVE | Computes dissolved oxygen and depth. |

- 10. BINAVG Averages the data into 1 m. depth bins.
- 11. DERIVE Computes salinity (PSS-78), density (EOS80), potential temperature (Pot. Temp), specific volume anomaly (SVA), and sound velocity (Chen-Millero) using Fofonoff and Millard's (1983) formulas.

No data corrections were made. The temperature sensor was calibrated prior to this cruise at Sea-Bird Electronics. On April 21, 1993, a drift of 0.00328 was obtained. After this cruise, the conductivity sensor was also sent to Sea-Bird Electronics for calibration. On August 5, 1993 a drift of 0.00015 was detected.

Station positions for the processed CTD data indicate actual occupied positions. Figure 3 (Appendix B) shows a plot of CTD sea surface temperature values versus MIDAS sea surface temperatures. Figure 4 (Appendix B) shows a CTD versus XBT temperature comparison for stations 05-050 and 05-051, with a 2.91 mile separation.

Column headings and units for the tabulated CTD data are as follows:

<u>Depth</u>	Depth	m
<u>Temp</u>	Temperature	°C
<u>Pot. Temp</u>	Potential Temperature	°C
<u>Salinity</u>	Salinity	PSU
<u>Density</u>	Density	kg/m ³
<u>SVA</u>	Specific Volume Anomaly	10 ⁻⁸ m ³ /kg
<u>Sound V</u>	Sound Velocity	m/s
<u>Oxy</u>	Oxygen	mg/l
<u>Fluor.</u>	Fluorescence	v
<u>Pressure:</u>	Pressure	db

Continuous Recording Data:

The continuously recording data were processed with an in-house program which:

- 1. Cuts cruise track lines from the continuously recorded file.
- 2. Plots raw data with no corrections.

Temperature Data:

The processed XBT data were calibrated against the CTD cast data. Scatter plots were made of the CTD depth and XBT depth difference (for the compared isotherm) versus XBT isotherm depth (Singer, 1990). The first order empirical fit was $y=0.047x -2.9$. A depth adjustment was made in the data to compensate for the fact that XBT isotherms were shallower than CTD isotherms.

The temperature profiles and isotherm maps were plotted using this corrected temperature data and were all generated with *Surfer* software (version 4, Golden Software, Inc.).

Rosette Cast Data:

Salinity data were computed using the recommended Joint Panel on Oceanographic Tables and Standards (JPOTS) formula (UNESCO, 1991). No salinity samples were obtained from stations: 04-036, 12-117, or 14-143. Due to Niskin bottle failure, only one salinity sample was obtained from station 09-096. The surface salinity contour maps were generated with *Surfer* software (version 4, Golden Software, Inc.). Figure 5 of Appendix B is a plot of the salinity values from the CTD versus those obtained from Niskin water samples from the same stations. The difference between the Niskin bottle salinity values and the CTD values is plotted versus depth in Figure 6 (Appendix B).

The mean and standard deviation for the Niskin bottle salinities and CTD salinities are:

Niskin Bottle Mean Salinity: 35.4196	CTD Mean Salinity: 35.4816
Niskin Bottle standard deviation: 1.7992	CTD standard deviation: 1.4226

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PERSONNEL

GulfCet Cruise 05 Personnel:

Ship's Captain:

Chris Riffe, R/V *Pelican*

Chief Scientist:

Jeff Norris

TAMU, Research Associate

Scientific Staff:

Tom Jefferson
Logan Respass
Mike Duncan
Laura Sharp
Brian Wilson
David Weller
Luis Montagno
Andy Schiro
Mary Howley
Shane Collier
Ann Werner
Bill Stevens
Ronnie Carroll

TAMU, Graduate Student
TAMUG, Marine Technician
TAMU, Graduate Student
Intern
TAMUG, Student
TAMU, Graduate Student
Volunteer
Volunteer
TAMUG, Clerk
TAMUG, Student
TAMU, Graduate Student
TAMUG, Marine Technician
Volunteer

GulfCet Analytical and Processing Personnel:

Sample Analysis:

Logan Respass

TAMUG, Marine Technician

Data Processing and Programming:

David Brandon
Ted Engelhardt

TAMUG, Computer Programmer
TAMUG, Clerk

Report Writing and Quality Assurance:

Giulietta Fargion
Cheryl Schroeder

TAMUG, GulfCet PI, Research Associate Specialist
TAMUG, Student

EXPENDABLE BATHYTHERMOGRAPH (XBT) DATA:

-DATA SUMMARY TABLES

Cruise: GULFCET 05
Latitude: 27° 51.50' N

Station: 03-022
Longitude: 94° 49.93' W

Probe Type: T-10
Date: 2-Jun-1993
Time: 0350

Depth (m)	Temp. (°C)
0.00	25.70
10.00	25.58
20.00	24.77
30.00	24.14
40.00	21.84
50.00	20.49
60.00	19.47
70.00	19.42
80.00	19.54
90.00	19.35
100.00	18.86
110.00	18.45
120.00	18.21
130.00	17.72
140.00	17.25
150.00	16.72
160.00	16.32
170.00	15.75
180.00	14.91

Cruise: GULFCET 05
Latitude: 27° 49.00' N

Station: 03-023
Longitude: 94° 50.01' W

Probe Type: T-7
Date: 2-Jun-1993
Time: 0328

Depth (m)	Temp. (°C)
0.00	25.76
10.00	25.33
20.00	24.06
30.00	23.96
40.00	22.36
50.00	20.48
60.00	19.69
70.00	19.46
80.00	19.73
90.00	19.43
100.00	18.59
110.00	17.99
120.00	17.55
130.00	16.97
140.00	16.37
150.00	16.09
160.00	15.75
170.00	15.34
180.00	15.01
190.00	14.56
200.00	13.97
210.00	13.91
220.00	13.68
230.00	13.44
240.00	13.26
250.00	13.07
260.00	12.72
270.00	12.42
280.00	11.88
290.00	11.75
300.00	11.47

Depth (m)	Temp. (°C)
310.00	11.37
320.00	11.19
330.00	11.11

Cruise: GULFCET 05
Latitude: 27° 42.00' N

Station: 03-024
Longitude: 94° 50.00' W

Probe Type: T-7
Date: 2-Jun-1993 Time: 0129

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.71	310.00	11.23
10.00	25.57	320.00	10.99
20.00	24.78	330.00	10.93
30.00	23.49	340.00	10.80
40.00	23.06	350.00	10.52
50.00	22.68		
60.00	21.69		
70.00	20.66		
80.00	19.91		
90.00	19.24		
100.00	18.55		
110.00	17.85		
120.00	17.26		
130.00	16.66		
140.00	16.24		
150.00	15.99		
160.00	15.61		
170.00	15.27		
180.00	14.88		
190.00	14.46		
200.00	14.08		
210.00	13.96		
220.00	13.56		
230.00	13.25		
240.00	12.93		
250.00	12.79		
260.00	12.57		
270.00	12.31		
280.00	11.92		
290.00	11.81		
300.00	11.52		

Cruise: GULFCET 05
Latitude: 27° 34.00' N

Station: 03-025
Longitude: 94° 50.03' W

Probe Type: T-7
Date: 2-Jun-1993 Time: 0124

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.46	310.00	11.54	610.00	6.96
10.00	25.22	320.00	11.30		
20.00	24.71	330.00	11.14		
30.00	24.93	340.00	10.96		
40.00	24.72	350.00	10.74		
50.00	23.11	360.00	10.49		
60.00	22.51	370.00	10.15		
70.00	21.29	380.00	10.08		
80.00	20.05	390.00	9.71		
90.00	19.12	400.00	9.39		
100.00	18.41	410.00	9.04		
110.00	17.88	420.00	8.98		
120.00	17.17	430.00	8.87		
130.00	16.87	440.00	8.68		
140.00	16.57	450.00	8.56		
150.00	16.19	460.00	8.39		
160.00	15.92	470.00	8.27		
170.00	15.46	480.00	8.08		
180.00	15.14	490.00	8.02		
190.00	14.77	500.00	8.03		
200.00	14.27	510.00	7.99		
210.00	14.07	520.00	7.90		
220.00	13.74	530.00	7.82		
230.00	13.43	540.00	7.64		
240.00	13.05	550.00	7.28		
250.00	12.83	560.00	7.22		
260.00	12.57	570.00	7.15		
270.00	12.34	580.00	7.08		
280.00	12.13	590.00	7.08		
290.00	11.99	600.00	7.03		
300.00	11.71				

Cruise: GULFCET 05
Latitude: 27° 23.23' N

Station: 03-027
Longitude: 94° 50.00' W

Probe Type: T-20
Date: 2-Jun-1993 Time: 2328

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.79	310.00	11.04	610.00	7.11
10.00	25.55	320.00	10.88	620.00	7.02
20.00	25.05	330.00	10.74	630.00	6.92
30.00	24.94	340.00	10.47	640.00	6.87
40.00	24.49	350.00	10.32	650.00	6.72
50.00	23.31	360.00	10.20	660.00	6.63
60.00	21.56	370.00	10.03	670.00	6.56
70.00	21.86	380.00	9.87	680.00	6.50
80.00	20.44	390.00	9.76	690.00	6.44
90.00	18.72	400.00	9.53	700.00	6.34
100.00	18.26	410.00	9.39	710.00	6.25
110.00	17.49	420.00	9.24	720.00	6.12
120.00	17.14	430.00	9.05	730.00	6.00
130.00	16.67	440.00	8.82	740.00	5.93
140.00	16.20	450.00	8.65	750.00	5.83
150.00	15.75	460.00	8.50	760.00	5.78
160.00	15.27	470.00	8.43	770.00	5.73
170.00	14.91	480.00	8.37	780.00	5.67
180.00	14.61	490.00	8.33	790.00	5.64
190.00	14.22	500.00	8.24	800.00	5.63
200.00	13.94	510.00	8.14	810.00	5.58
210.00	13.50	520.00	7.99	820.00	5.57
220.00	13.21	530.00	7.79	830.00	5.54
230.00	12.91	540.00	7.70	840.00	5.51
240.00	12.64	550.00	7.56	850.00	5.46
250.00	12.48	560.00	7.50	860.00	5.38
260.00	12.14	570.00	7.41	870.00	5.33
270.00	11.84	580.00	7.36	880.00	5.22
280.00	11.71	590.00	7.26	890.00	5.20
290.00	11.40	600.00	7.18	900.00	5.18
300.00	11.18				

Cruise: GULFCET 05
Latitude: 26° 21.87' N

Station: 03-EX3
Longitude: 94° 52.70' W

Probe Type: T-7
Date: 2-Jun-1993 Time: 1309

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.99	310.00	10.84	610.00	6.11
10.00	24.73	320.00	10.63	620.00	6.06
20.00	24.25	330.00	10.51	630.00	6.01
30.00	23.47	340.00	10.19	640.00	5.88
40.00	23.06	350.00	10.18	650.00	5.80
50.00	22.31	360.00	9.81	660.00	5.76
60.00	22.09	370.00	9.49	670.00	5.71
70.00	20.41	380.00	9.44	680.00	5.69
80.00	20.20	390.00	9.30	690.00	5.63
90.00	19.86	400.00	9.01	700.00	5.60
100.00	19.39	410.00	8.81	710.00	5.53
110.00	18.30	420.00	8.56	720.00	5.47
120.00	17.73	430.00	8.43	730.00	5.46
130.00	17.16	440.00	8.16	740.00	5.43
140.00	16.44	450.00	7.88	750.00	5.38
150.00	15.91	460.00	7.79	760.00	5.31
160.00	15.71	470.00	7.60	770.00	5.22
170.00	14.95	480.00	7.37	780.00	5.18
180.00	14.71	490.00	7.20	790.00	5.14
190.00	14.32	500.00	7.10	800.00	5.10
200.00	14.04	510.00	6.99	810.00	5.08
210.00	13.59	520.00	6.94	820.00	5.07
220.00	13.43	530.00	6.75		
230.00	13.15	540.00	6.66		
240.00	12.71	550.00	6.63		
250.00	12.50	560.00	6.58		
260.00	12.26	570.00	6.49		
270.00	11.89	580.00	6.38		
280.00	11.59	590.00	6.28		
290.00	11.32	600.00	6.24		
300.00	11.03				

Cruise: GULFCET 05
Latitude: 26° 37.00' N

Station: 04-032
Longitude: 94° 10.06' W

Probe Type: T-20
Date: 2-Jun-1993 Time: 0416

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.89	310.00	10.48
10.00	25.46	320.00	10.26
20.00	24.20	330.00	10.05
30.00	22.77	340.00	9.88
40.00	21.97	350.00	9.72
50.00	21.18	360.00	9.42
60.00	20.61	370.00	9.23
70.00	19.98	380.00	9.04
80.00	19.09	390.00	8.79
90.00	18.65	400.00	8.87
100.00	17.93		
110.00	17.34		
120.00	16.75		
130.00	16.18		
140.00	15.62		
150.00	15.13		
160.00	14.70		
170.00	14.27		
180.00	13.86		
190.00	13.56		
200.00	13.12		
210.00	12.82		
220.00	12.54		
230.00	12.30		
240.00	12.00		
250.00	11.71		
260.00	11.48		
270.00	11.34		
280.00	11.04		
290.00	10.80		
300.00	10.64		

Cruise: GULFCET 05
Latitude: 27° 38.07' N

Station: 04-038
Longitude: 94° 09.99' W

Probe Type: T-7
Date: 1-Jun-1993 Time: 1623

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.51	310.00	11.55	610.00	7.38
10.00	25.20	320.00	11.37	620.00	7.16
20.00	24.20	330.00	11.11	630.00	6.99
30.00	22.33	340.00	10.90	640.00	6.93
40.00	21.06	350.00	10.70	650.00	6.78
50.00	20.47	360.00	10.53	660.00	6.69
60.00	19.80	370.00	10.38	670.00	6.65
70.00	19.40	380.00	10.21	680.00	6.54
80.00	18.72	390.00	10.05	690.00	6.44
90.00	18.01	400.00	9.94	700.00	6.36
100.00	17.39	410.00	9.71	710.00	6.32
110.00	16.71	420.00	9.41		
120.00	16.43	430.00	9.20		
130.00	16.19	440.00	8.95		
140.00	15.89	450.00	8.82		
150.00	15.46	460.00	8.73		
160.00	15.14	470.00	8.65		
170.00	14.95	480.00	8.51		
180.00	14.62	490.00	8.45		
190.00	14.54	500.00	8.40		
200.00	14.30	510.00	8.30		
210.00	14.02	520.00	8.22		
220.00	13.73	530.00	8.07		
230.00	13.47	540.00	7.99		
240.00	13.28	550.00	7.91		
250.00	13.10	560.00	7.85		
260.00	12.92	570.00	7.80		
270.00	12.67	580.00	7.68		
280.00	12.38	590.00	7.58		
290.00	11.97	600.00	7.45		
300.00	11.72				

Cruise: GULFCET 05
Latitude: 27° 40.98' N

Station: 04-039
Longitude: 94° 10.00' W

Probe Type: T-7
Date: 1-Jun-1993 Time: 1557

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.18	310.00	11.59
10.00	24.80	320.00	11.38
20.00	23.88	330.00	11.11
30.00	22.03	340.00	10.90
40.00	20.71	350.00	10.81
50.00	20.36	360.00	10.58
60.00	19.85	370.00	10.41
70.00	19.45	380.00	10.10
80.00	18.76	390.00	9.59
90.00	17.90	400.00	9.54
100.00	17.59	410.00	9.52
110.00	17.38	420.00	9.33
120.00	16.70	430.00	9.25
130.00	16.42	440.00	9.15
140.00	16.02	450.00	9.01
150.00	15.70	460.00	8.94
160.00	15.24	470.00	8.70
170.00	14.96	480.00	8.58
180.00	14.79	490.00	8.51
190.00	14.50	500.00	8.39
200.00	14.28	510.00	8.32
210.00	14.01	520.00	8.25
220.00	13.77	530.00	8.20
230.00	13.57	540.00	8.04
240.00	13.34		
250.00	13.21		
260.00	12.70		
270.00	12.42		
280.00	12.14		
290.00	11.95		
300.00	11.72		

Cruise: GULFCET 05
Latitude: 27° 44.02' N

Station: 04-040
Longitude: 94° 10.03' W

Probe Type: T-7
Date: 1-Jun-1993 Time: 1531

Depth (m)	Temp. (°C)
0.00	25.24
10.00	25.02
20.00	24.44
30.00	22.20
40.00	21.42
50.00	20.67
60.00	20.12
70.00	19.49
80.00	19.06
90.00	18.66
100.00	17.82
110.00	17.56
120.00	17.26
130.00	16.99
140.00	16.69
150.00	16.15
160.00	15.87
170.00	15.51
180.00	15.19
190.00	14.77
200.00	14.46
210.00	14.17
220.00	13.80
230.00	13.64
240.00	13.44
250.00	13.16
260.00	12.96
270.00	12.76
280.00	12.54
290.00	12.17
300.00	11.70

Cruise: GULFCET 05
Latitude: 27° 49.50' N

Station: 04-041
Longitude: 94° 09.99' W

Probe Type: T-10
Date: 1-Jun-1993 Time: 1445

Depth (m)	Temp. (°C)
0.00	25.05
10.00	24.81
20.00	23.88
30.00	21.16
40.00	21.16
50.00	20.22
60.00	19.45
70.00	19.25
80.00	18.99
90.00	18.74
100.00	18.51
110.00	18.13
120.00	17.66
130.00	17.19
140.00	16.82
150.00	16.61
160.00	16.30
170.00	15.82
180.00	15.64
190.00	15.43

Cruise: GULFCET 05
Latitude: 27° 31.00' N

Station: 04-EX2
Longitude: 94° 13.00' W

Probe Type: T-7
Date: 1-Jun-1993 Time: 1805

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.57	310.00	11.25	610.00	6.88
10.00	25.17	320.00	10.99	620.00	6.82
20.00	23.94	330.00	10.76	630.00	6.75
30.00	21.98	340.00	10.63	640.00	6.66
40.00	21.60	350.00	10.39	650.00	6.59
50.00	20.48	360.00	10.21	660.00	6.50
60.00	19.98	370.00	9.96	670.00	6.41
70.00	19.50	380.00	9.67	680.00	6.31
80.00	18.97	390.00	9.47	690.00	6.22
90.00	18.45	400.00	9.33	700.00	6.12
100.00	17.82	410.00	9.22	710.00	5.98
110.00	17.36	420.00	9.18	720.00	5.89
120.00	16.90	430.00	9.11	730.00	5.82
130.00	16.46	440.00	9.05	740.00	5.76
140.00	15.99	450.00	8.95		
150.00	15.68	460.00	8.71		
160.00	15.27	470.00	8.65		
170.00	14.92	480.00	8.55		
180.00	14.73	490.00	8.35		
190.00	14.44	500.00	8.28		
200.00	14.16	510.00	8.24		
210.00	13.90	520.00	8.06		
220.00	13.64	530.00	7.86		
230.00	13.26	540.00	7.72		
240.00	13.08	550.00	7.59		
250.00	12.86	560.00	7.51		
260.00	12.47	570.00	7.49		
270.00	12.15	580.00	7.32		
280.00	11.97	590.00	7.24		
290.00	11.77	600.00	6.99		
300.00	11.46				

Cruise: GULFCET 05
Latitude: 27° 49.00' N

Station: 05-044
Longitude: 93° 30.01' W

Probe Type: T-10
Date: 1-Jun-1993
Time: 0817

Depth (m)	Temp. (°C)
0.00	25.24
10.00	24.63
20.00	23.90
30.00	22.55
40.00	22.50
50.00	21.29
60.00	20.83
70.00	19.97
80.00	19.80
90.00	19.29
100.00	18.72
110.00	18.26
120.00	17.85
130.00	17.59
140.00	17.39
150.00	17.02
160.00	16.97
170.00	16.63
180.00	16.25
190.00	15.71

Cruise: GULFCET 05
Latitude: 27° 35.00' N

Station: 05-045
Longitude: 93° 30.01' W

Probe Type: T-7
Date: 1-Jun-1993
Time: 0617

Depth (m)	Temp. (°C)
0.00	25.47
10.00	25.08
20.00	24.36
30.00	23.81
40.00	22.84
50.00	22.11
60.00	21.48
70.00	20.82
80.00	20.52
90.00	19.85
100.00	19.52
110.00	18.72
120.00	17.64
130.00	17.14
140.00	16.82
150.00	16.35
160.00	15.87
170.00	15.32
180.00	15.03
190.00	14.81
200.00	14.58
210.00	14.31
220.00	13.84
230.00	13.48
240.00	13.22
250.00	13.10
260.00	12.58
270.00	12.33
280.00	12.19
290.00	12.09
300.00	12.01

Cruise: GULFCET 05
Latitude: 27° 33.00' N

Station: 05-046
Longitude: 93° 29.99' W

Probe Type: T-7
Date: 1-Jun-1993 Time: 0600

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.58	310.00	11.31
10.00	25.03	320.00	11.08
20.00	24.39	330.00	10.85
30.00	23.26	340.00	10.58
40.00	22.48	350.00	10.39
50.00	21.75	360.00	10.12
60.00	21.09	370.00	10.02
70.00	20.92	380.00	9.95
80.00	20.57	390.00	9.90
90.00	20.08	400.00	9.85
100.00	19.51	410.00	9.72
110.00	18.69	420.00	9.34
120.00	17.80		
130.00	17.26		
140.00	16.70		
150.00	16.40		
160.00	16.02		
170.00	15.73		
180.00	15.17		
190.00	14.82		
200.00	14.51		
210.00	14.27		
220.00	14.00		
230.00	13.51		
240.00	13.19		
250.00	12.72		
260.00	12.41		
270.00	12.07		
280.00	11.92		
290.00	11.74		
300.00	11.59		

Cruise: GULFCET 05
Latitude: 27° 21.01' N

Station: 05-048
Longitude: 93° 29.90' W

Probe Type: T-7
Date: 1-Jun-1993 Time: 0341

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.55	310.00	10.77	610.00	6.88
10.00	25.08	320.00	10.49	620.00	6.84
20.00	24.62	330.00	10.35	630.00	6.77
30.00	23.33	340.00	10.15		
40.00	22.95	350.00	9.98		
50.00	22.23	360.00	9.87		
60.00	21.26	370.00	9.60		
70.00	20.38	380.00	9.44		
80.00	20.29	390.00	9.32		
90.00	19.21	400.00	9.22		
100.00	18.52	410.00	9.14		
110.00	17.84	420.00	8.96		
120.00	17.25	430.00	8.78		
130.00	16.88	440.00	8.59		
140.00	16.51	450.00	8.47		
150.00	16.20	460.00	8.29		
160.00	15.78	470.00	8.19		
170.00	15.46	480.00	8.13		
180.00	15.21	490.00	8.07		
190.00	14.89	500.00	7.97		
200.00	14.57	510.00	7.80		
210.00	14.34	520.00	7.77		
220.00	14.04	530.00	7.64		
230.00	13.73	540.00	7.42		
240.00	13.26	550.00	7.36		
250.00	12.91	560.00	7.23		
260.00	12.53	570.00	7.11		
270.00	12.10	580.00	7.06		
280.00	11.90	590.00	6.98		
290.00	11.60	600.00	6.92		
300.00	11.09				

Cruise: GULFCET 05
Latitude: 27° 6.00' N

Station: 05-049
Longitude: 93° 29.98' W

Probe Type: T-20
Date: 1-Jun-1993 Time: 0141

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.71	310.00	10.57	610.00	6.50
10.00	25.45	320.00	10.50	620.00	6.40
20.00	25.01	330.00	10.26	630.00	6.34
30.00	24.66	340.00	10.08	640.00	6.23
40.00	23.22	350.00	9.79	650.00	6.08
50.00	22.29	360.00	9.65	660.00	6.02
60.00	21.39	370.00	9.48	670.00	6.00
70.00	20.62	380.00	9.27	680.00	5.96
80.00	19.57	390.00	9.19	690.00	5.87
90.00	18.90	400.00	8.98	700.00	5.80
100.00	18.12	410.00	8.86	710.00	5.71
110.00	17.27	420.00	8.68	720.00	5.70
120.00	16.79	430.00	8.51	730.00	5.70
130.00	16.22	440.00	8.35	740.00	5.69
140.00	15.66	450.00	8.24	750.00	5.61
150.00	15.08	460.00	8.14		
160.00	14.66	470.00	7.99		
170.00	14.22	480.00	7.83		
180.00	13.74	490.00	7.66		
190.00	13.42	500.00	7.51		
200.00	13.21	510.00	7.33		
210.00	12.84	520.00	7.22		
220.00	12.59	530.00	7.07		
230.00	12.33	540.00	6.95		
240.00	12.04	550.00	6.88		
250.00	11.77	560.00	6.82		
260.00	11.50	570.00	6.75		
270.00	11.26	580.00	6.70		
280.00	11.05	590.00	6.63		
290.00	10.92	600.00	6.54		
300.00	10.76				

Cruise: GULFCET 05
Latitude: 26° 42.99' N

Station: 05-051
Longitude: 93° 30.00' W

Probe Type: T-20
Date: 31-May-1993 Time: 2158

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	26.17	310.00	10.14	610.00	6.21
10.00	25.32	320.00	10.01	620.00	6.14
20.00	23.97	330.00	9.84	630.00	6.05
30.00	22.88	340.00	9.61	640.00	5.99
40.00	22.06	350.00	9.49	650.00	5.93
50.00	21.37	360.00	9.33	660.00	5.86
60.00	20.74	370.00	9.02	670.00	5.82
70.00	20.23	380.00	8.88	680.00	5.78
80.00	19.65	390.00	8.77	690.00	5.73
90.00	18.82	400.00	8.48	700.00	5.71
100.00	17.85	410.00	8.38	710.00	5.67
110.00	17.24	420.00	8.08	720.00	5.61
120.00	16.37	430.00	8.04	730.00	5.55
130.00	15.73	440.00	7.87	740.00	5.53
140.00	15.07	450.00	7.81	750.00	5.46
150.00	14.71	460.00	7.70	760.00	5.43
160.00	14.42	470.00	7.57	770.00	5.39
170.00	14.02	480.00	7.51	780.00	5.33
180.00	13.62	490.00	7.40	790.00	5.31
190.00	13.26	500.00	7.27	800.00	5.26
200.00	13.03	510.00	7.19	810.00	5.23
210.00	12.78	520.00	7.03	820.00	5.19
220.00	12.44	530.00	6.96	830.00	5.16
230.00	12.01	540.00	6.90	840.00	5.05
240.00	11.71	550.00	6.75	850.00	5.04
250.00	11.43	560.00	6.71		
260.00	11.29	570.00	6.63		
270.00	11.00	580.00	6.52		
280.00	10.77	590.00	6.42		
290.00	10.64	600.00	6.30		
300.00	10.31				

Cruise: GULFCET 05
Latitude: 26° 52.00' N

Station: 06-056
Longitude: 92° 49.96' W

Probe Type: T-20
Date: 31-May-1993 Time: 0613

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	26.19	310.00	10.85	610.00	6.45
10.00	25.51	320.00	10.68	620.00	6.35
20.00	24.94	330.00	10.53	630.00	6.29
30.00	23.65	340.00	10.33	640.00	6.21
40.00	22.34	350.00	10.00	650.00	6.14
50.00	21.66	360.00	9.80	660.00	6.10
60.00	21.04	370.00	9.56	670.00	6.07
70.00	20.29	380.00	9.50	680.00	6.01
80.00	19.62	390.00	9.24	690.00	5.94
90.00	18.60	400.00	9.06	700.00	5.85
100.00	17.68	410.00	8.84	710.00	5.81
110.00	17.13	420.00	8.65	720.00	5.72
120.00	16.52	430.00	8.52	730.00	5.63
130.00	16.31	440.00	8.31	740.00	5.59
140.00	15.94	450.00	8.14	750.00	5.55
150.00	15.65	460.00	8.00	760.00	5.50
160.00	15.33	470.00	8.00	770.00	5.47
170.00	15.00	480.00	7.90	780.00	5.46
180.00	14.60	490.00	7.78	790.00	5.38
190.00	14.16	500.00	7.63	800.00	5.35
200.00	13.82	510.00	7.56	810.00	5.31
210.00	13.53	520.00	7.43	820.00	5.28
220.00	13.15	530.00	7.25	830.00	5.24
230.00	12.81	540.00	7.18	840.00	5.18
240.00	12.54	550.00	7.06	850.00	5.14
250.00	12.29	560.00	6.91	860.00	5.11
260.00	11.96	570.00	6.82		
270.00	11.70	580.00	6.72		
280.00	11.46	590.00	6.65		
290.00	11.29	600.00	6.57		
300.00	11.07				

Cruise: GULFCET 05
Latitude: 27° 19.04' N

Station: 06-058
Longitude: 92° 50.00' W

Probe Type: T-20
Date: 31-May-1993 Time: 0233

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	26.11	310.00	11.33	610.00	5.98
10.00	25.52	320.00	11.10	620.00	5.95
20.00	24.84	330.00	10.77		
30.00	24.52	340.00	10.46		
40.00	23.32	350.00	10.07		
50.00	22.57	360.00	9.75		
60.00	21.77	370.00	9.54		
70.00	21.03	380.00	9.35		
80.00	20.32	390.00	9.14		
90.00	19.79	400.00	8.89		
100.00	19.07	410.00	8.57		
110.00	18.38	420.00	8.40		
120.00	17.62	430.00	8.11		
130.00	17.06	440.00	7.87		
140.00	16.50	450.00	7.58		
150.00	16.05	460.00	7.39		
160.00	15.49	470.00	7.20		
170.00	15.18	480.00	7.07		
180.00	14.87	490.00	6.85		
190.00	14.55	500.00	6.69		
200.00	14.38	510.00	6.62		
210.00	14.09	520.00	6.51		
220.00	13.81	530.00	6.41		
230.00	13.46	540.00	6.35		
240.00	13.17	550.00	6.29		
250.00	12.95	560.00	6.22		
260.00	12.68	570.00	6.21		
270.00	12.44	580.00	6.13		
280.00	12.25	590.00	6.06		
290.00	11.92	600.00	6.04		
300.00	11.61				

Cruise: GULFCET 05
Latitude: 27° 34.50' N

Station: 06-060
Longitude: 92° 50.00' W

Probe Type: T-7
Date: 30-May-1993 Time: 2355

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.69	310.00	10.83	610.00	6.75
10.00	25.06	320.00	10.70	620.00	6.57
20.00	24.71	330.00	10.47	630.00	6.46
30.00	23.89	340.00	10.17		
40.00	23.26	350.00	10.07		
50.00	22.48	360.00	9.93		
60.00	21.47	370.00	9.76		
70.00	20.66	380.00	9.62		
80.00	19.93	390.00	9.35		
90.00	19.13	400.00	9.22		
100.00	18.24	410.00	9.11		
110.00	17.79	420.00	8.96		
120.00	17.19	430.00	8.79		
130.00	16.63	440.00	8.53		
140.00	16.04	450.00	8.40		
150.00	15.50	460.00	8.29		
160.00	15.04	470.00	8.17		
170.00	14.72	480.00	8.09		
180.00	14.43	490.00	8.01		
190.00	14.08	500.00	7.88		
200.00	13.85	510.00	7.77		
210.00	13.62	520.00	7.64		
220.00	13.32	530.00	7.56		
230.00	12.98	540.00	7.44		
240.00	12.61	550.00	7.31		
250.00	12.38	560.00	7.16		
260.00	12.09	570.00	7.09		
270.00	11.84	580.00	6.96		
280.00	11.65	590.00	6.91		
290.00	11.37	600.00	6.87		
300.00	11.08				

Cruise: GULFCET 05
Latitude: 27° 41.00' N

Station: 06-061
Longitude: 92° 50.00' W

Probe Type: T-7
Date: 30-May-1993 Time: 2259

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.89	310.00	11.13
10.00	25.08	320.00	10.94
20.00	24.81	330.00	10.81
30.00	24.55	340.00	10.68
40.00	23.20	350.00	10.54
50.00	22.19	360.00	10.27
60.00	21.31		
70.00	20.80		
80.00	20.04		
90.00	19.62		
100.00	18.67		
110.00	17.96		
120.00	17.29		
130.00	16.83		
140.00	16.67		
150.00	16.14		
160.00	15.90		
170.00	15.39		
180.00	15.03		
190.00	14.61		
200.00	14.18		
210.00	13.76		
220.00	13.52		
230.00	13.22		
240.00	13.08		
250.00	12.73		
260.00	12.37		
270.00	12.16		
280.00	11.97		
290.00	11.58		
300.00	11.34		

Cruise: GULFCET 05
Latitude: 24° 42.82' N

Station: 06-062
Longitude: 92° 50.00' W

Probe Type: T-7
Date: 30-May-1993 **Time:** 2245

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	26.01	310.00	11.29
10.00	25.11	320.00	11.06
20.00	24.82	330.00	10.97
30.00	24.26	340.00	10.88
40.00	22.66	350.00	10.75
50.00	22.13		
60.00	21.06		
70.00	20.18		
80.00	19.93		
90.00	19.54		
100.00	18.51		
110.00	17.78		
120.00	17.30		
130.00	17.07		
140.00	16.54		
150.00	16.02		
160.00	15.68		
170.00	15.28		
180.00	14.84		
190.00	14.45		
200.00	14.23		
210.00	13.85		
220.00	13.42		
230.00	13.18		
240.00	12.77		
250.00	12.53		
260.00	12.26		
270.00	12.06		
280.00	11.77		
290.00	11.59		
300.00	11.48		

Cruise: GULFCET 05
Latitude: 27° 54.50' N

Station: 06-063
Longitude: 92° 50.00' W

Probe Type: T-10
Date: 30-May-1993 **Time:** 2100

Depth (m)	Temp. (°C)
0.00	25.81
10.00	25.12
20.00	24.79
30.00	23.24
40.00	23.14
50.00	22.45
60.00	21.57
70.00	21.03
80.00	20.65
90.00	19.76
100.00	19.68
110.00	19.07
120.00	18.49
130.00	18.14
140.00	17.70
150.00	17.31
160.00	16.84
170.00	16.46
180.00	15.77
190.00	15.19

Cruise: GULFCET 05
Latitude: 27° 53.00' N

Station: 07-066
Longitude: 92° 10.00' W

Probe Type: T-10
Date: 30-May-1993 **Time:** 1421

Depth (m)	Temp. (°C)
0.00	26.36
10.00	24.99
20.00	24.80
30.00	24.51
40.00	23.11
50.00	22.72
60.00	21.84
70.00	21.05
80.00	20.69
90.00	20.39
100.00	19.90
110.00	19.45
120.00	18.67
130.00	18.32
140.00	17.67
150.00	17.23
160.00	16.71
170.00	16.51
180.00	16.14
190.00	15.68
200.00	15.47
210.00	15.16

Cruise: GULFCET 05
Latitude: 27° 51.99' N

Station: 07-067
Longitude: 92° 10.00' W

Probe Type: T-7
Date: 30-May-1993 **Time:** 1413

Depth (m)	Temp. (°C)
0.00	25.60
10.00	24.94
20.00	24.70
30.00	24.20
40.00	23.09
50.00	22.71
60.00	22.02
70.00	20.99
80.00	20.52
90.00	20.19
100.00	19.85
110.00	19.30
120.00	18.63
130.00	17.75
140.00	17.43
150.00	17.11
160.00	16.68
170.00	16.29
180.00	15.78
190.00	15.47
200.00	15.27
210.00	14.84
220.00	14.55
230.00	14.20
240.00	13.83
250.00	13.45
260.00	12.95
270.00	12.64
280.00	12.55
290.00	11.99

Cruise: GULFCET 05
Latitude: 27° 45.00' N

Station: 07-068
Longitude: 92° 10.00' W

Probe Type: T-7
Date: 30-May-1993 Time: 1312

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.61	310.00	11.79
10.00	25.08	320.00	11.63
20.00	24.81	330.00	11.41
30.00	24.50	340.00	11.04
40.00	23.31	350.00	10.76
50.00	22.74		
60.00	21.45		
70.00	20.68		
80.00	20.45		
90.00	19.71		
100.00	19.47		
110.00	18.80		
120.00	18.05		
130.00	17.84		
140.00	17.49		
150.00	17.14		
160.00	16.89		
170.00	16.48		
180.00	16.21		
190.00	15.95		
200.00	15.54		
210.00	15.19		
220.00	14.82		
230.00	14.52		
240.00	14.00		
250.00	13.70		
260.00	13.40		
270.00	13.22		
280.00	12.93		
290.00	12.53		
300.00	12.15		

Cruise: GULFCET 05
Latitude: 27° 37.02' N

Station: 07-069
Longitude: 92° 10.03' W

Probe Type: T-7
Date: 30-May-1993 Time: 1150

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.48	310.00	11.78	610.00	7.06
10.00	25.18	320.00	11.63	620.00	6.97
20.00	24.86	330.00	11.25	630.00	6.89
30.00	24.01	340.00	11.02	640.00	6.83
40.00	22.84	350.00	10.77	650.00	6.78
50.00	22.06	360.00	10.55	660.00	6.67
60.00	21.25	370.00	10.39	670.00	6.48
70.00	20.48	380.00	10.18	680.00	6.44
80.00	19.77	390.00	9.93		
90.00	19.13	400.00	9.78		
100.00	18.78	410.00	9.57		
110.00	18.68	420.00	9.37		
120.00	17.83	430.00	9.22		
130.00	17.50	440.00	9.05		
140.00	17.14	450.00	8.85		
150.00	16.94	460.00	8.77		
160.00	16.51	470.00	8.56		
170.00	16.07	480.00	8.45		
180.00	15.71	490.00	8.36		
190.00	15.49	500.00	8.15		
200.00	15.20	510.00	7.97		
210.00	15.00	520.00	7.84		
220.00	14.66	530.00	7.69		
230.00	14.08	540.00	7.60		
240.00	13.70	550.00	7.45		
250.00	13.28	560.00	7.40		
260.00	12.97	570.00	7.32		
270.00	12.61	580.00	7.25		
280.00	12.34	590.00	7.17		
290.00	12.20	600.00	7.12		
300.00	11.96				

Cruise: GULFCET 05
Latitude: 27° 30.50' N

Station: 07-070
Longitude: 92° 10.12' W

Probe Type: T-20
Date: 30-May-1993 Time: 1052

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.62	310.00	11.56	610.00	6.80
10.00	25.27	320.00	11.41	620.00	6.72
20.00	24.79	330.00	11.31	630.00	6.61
30.00	23.29	340.00	10.99	640.00	6.55
40.00	22.75	350.00	10.62	650.00	6.49
50.00	22.16	360.00	10.35	660.00	6.42
60.00	21.22	370.00	10.12	670.00	6.36
70.00	20.62	380.00	9.96	680.00	6.25
80.00	20.23	390.00	9.77	690.00	6.19
90.00	19.59	400.00	9.64		
100.00	18.87	410.00	9.47		
110.00	18.18	420.00	9.34		
120.00	18.23	430.00	9.12		
130.00	17.62	440.00	8.99		
140.00	17.07	450.00	8.81		
150.00	16.48	460.00	8.65		
160.00	15.89	470.00	8.54		
170.00	15.54	480.00	8.40		
180.00	15.21	490.00	8.22		
190.00	14.88	500.00	8.05		
200.00	14.61	510.00	7.93		
210.00	14.28	520.00	7.80		
220.00	14.05	530.00	7.69		
230.00	13.65	540.00	7.68		
240.00	13.31	550.00	7.55		
250.00	13.05	560.00	7.41		
260.00	12.80	570.00	7.19		
270.00	12.52	580.00	7.11		
280.00	12.31	590.00	7.04		
290.00	12.00	600.00	6.98		
300.00	11.78				

Cruise: GULFCET 05
Latitude: 27° 09.99' N

Station: 07-072
Longitude: 92° 09.97' W

Probe Type: T-20
Date: 30-May-1993 Time: 0350

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.46	310.00	11.59	610.00	6.68
10.00	24.97	320.00	11.24	620.00	6.61
20.00	24.69	330.00	11.06	630.00	6.52
30.00	23.27	340.00	10.86	640.00	6.46
40.00	22.70	350.00	10.68	650.00	6.34
50.00	21.68	360.00	10.52	660.00	6.30
60.00	20.59	370.00	10.32	670.00	6.23
70.00	20.46	380.00	10.09	680.00	6.15
80.00	19.71	390.00	9.83	690.00	6.07
90.00	19.34	400.00	9.59	700.00	5.98
100.00	18.86	410.00	9.44	710.00	5.89
110.00	18.60	420.00	9.26	720.00	5.83
120.00	18.20	430.00	9.00		
130.00	17.88	440.00	8.82		
140.00	17.69	450.00	8.70		
150.00	17.46	460.00	8.60		
160.00	17.05	470.00	8.39		
170.00	16.62	480.00	8.16		
180.00	16.10	490.00	7.94		
190.00	15.68	500.00	7.83		
200.00	15.35	510.00	7.67		
210.00	14.87	520.00	7.53		
220.00	14.40	530.00	7.45		
230.00	14.13	540.00	7.29		
240.00	13.58	550.00	7.19		
250.00	13.26	560.00	7.07		
260.00	12.92	570.00	7.00		
270.00	12.66	580.00	6.92		
280.00	12.32	590.00	6.86		
290.00	12.07	600.00	6.76		
300.00	11.92				

Cruise: GULFCET 05
Latitude: 27° 23.00' N

Station: 08-079
Longitude: 91° 30.00' W

Probe Type: T-20
Date: 29-May-1993 Time: 0912

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.42	310.00	10.98
10.00	25.08	320.00	10.90
20.00	24.97	330.00	10.79
30.00	23.69	340.00	10.73
40.00	23.07	350.00	10.62
50.00	22.13	360.00	10.52
60.00	21.23	370.00	10.39
70.00	20.46	380.00	10.27
80.00	19.40	390.00	10.14
90.00	18.97	400.00	9.88
100.00	17.79	410.00	9.65
110.00	17.02	420.00	9.49
120.00	16.42	430.00	9.18
130.00	15.81	440.00	9.01
140.00	15.54	450.00	8.86
150.00	15.06	460.00	8.58
160.00	14.79	470.00	8.44
170.00	14.40	480.00	8.21
180.00	14.01	490.00	8.13
190.00	13.62	500.00	7.94
200.00	13.23	510.00	7.79
210.00	12.87	520.00	7.54
220.00	12.48	530.00	7.45
230.00	12.17	540.00	7.33
240.00	11.90		
250.00	11.60		
260.00	11.47		
270.00	11.42		
280.00	11.31		
290.00	11.24		
300.00	11.10		

Cruise: GULFCET 05
Latitude: 27° 33.00' N

Station: 08-081
Longitude: 91° 30.08' W

Probe Type: T-20
Date: 29-May-1993 Time: 0721

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.26	310.00	11.26
10.00	25.14	320.00	11.11
20.00	25.08	330.00	10.86
30.00	23.52	340.00	10.67
40.00	22.41		
50.00	21.69		
60.00	20.65		
70.00	20.56		
80.00	19.89		
90.00	19.03		
100.00	18.47		
110.00	17.74		
120.00	17.18		
130.00	16.45		
140.00	15.97		
150.00	15.52		
160.00	15.01		
170.00	14.66		
180.00	14.27		
190.00	13.92		
200.00	13.64		
210.00	13.48		
220.00	13.24		
230.00	13.01		
240.00	12.74		
250.00	12.46		
260.00	12.25		
270.00	11.96		
280.00	11.78		
290.00	11.62		
300.00	11.44		

Cruise: GULFCET 05
Latitude: 27° 45.51' N

Station: 08-082
Longitude: 91° 30.00' W

Probe Type: T-7
Date: 29-May-1993 Time: 0541

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.03	310.00	11.58	610.00	6.63
10.00	25.00	320.00	11.46	620.00	6.52
20.00	25.10	330.00	11.32	630.00	6.44
30.00	23.76	340.00	11.20	640.00	6.34
40.00	23.42	350.00	11.12	650.00	6.17
50.00	22.65	360.00	10.82	660.00	6.09
60.00	22.02	370.00	10.50		
70.00	21.78	380.00	10.37		
80.00	20.50	390.00	10.15		
90.00	20.07	400.00	9.98		
100.00	19.30	410.00	9.79		
110.00	18.81	420.00	9.67		
120.00	18.21	430.00	9.36		
130.00	17.20	440.00	9.24		
140.00	16.31	450.00	9.05		
150.00	15.84	460.00	8.86		
160.00	15.36	470.00	8.77		
170.00	14.85	480.00	8.60		
180.00	14.58	490.00	8.39		
190.00	14.44	500.00	8.26		
200.00	14.12	510.00	7.94		
210.00	13.76	520.00	7.63		
220.00	13.49	530.00	7.48		
230.00	13.16	540.00	7.39		
240.00	12.89	550.00	7.23		
250.00	12.61	560.00	7.16		
260.00	12.33	570.00	7.02		
270.00	12.21	580.00	6.92		
280.00	12.08	590.00	6.84		
290.00	11.96	600.00	6.74		
300.00	11.78				

Cruise: GULFCET 05
Latitude: 27° 49.50' N

Station: 08-083
Longitude: 91° 30.07' W

Probe Type: T-7
Date: 29-May-1993 Time: 0508

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.14	310.00	11.77
10.00	25.00	320.00	11.55
20.00	25.04	330.00	11.38
30.00	24.84	340.00	11.21
40.00	23.12	350.00	10.94
50.00	22.64	360.00	10.70
60.00	21.43	370.00	10.29
70.00	20.95	380.00	10.15
80.00	20.55		
90.00	20.13		
100.00	19.31		
110.00	18.71		
120.00	18.08		
130.00	17.21		
140.00	16.69		
150.00	16.41		
160.00	16.20		
170.00	15.63		
180.00	15.00		
190.00	14.77		
200.00	14.58		
210.00	14.32		
220.00	13.93		
230.00	13.61		
240.00	13.33		
250.00	12.96		
260.00	12.66		
270.00	12.41		
280.00	12.29		
290.00	12.09		
300.00	12.00		

Cruise: GULFCET 05 **Station:** 08-084 **Probe Type:** T-7
Latitude: 27° 52.00' N **Longitude:** 91° 29.99' W **Date:** 29-May-1993 **Time:** 0447

Depth (m)	Temp. (°C)
0.00	25.02
10.00	25.00
20.00	25.00
30.00	24.91
40.00	23.67
50.00	22.46
60.00	21.54
70.00	20.64
80.00	20.44
90.00	19.61
100.00	18.65
110.00	17.94
120.00	17.39
130.00	17.05
140.00	16.82
150.00	16.74
160.00	16.34
170.00	15.71
180.00	15.37
190.00	15.20
200.00	15.12
210.00	14.74
220.00	14.44
230.00	13.87
240.00	13.80
250.00	13.08

Cruise: GULFCET 05 **Station:** 08-085 **Probe Type:** T-10
Latitude: 27° 52.99' N **Longitude:** 91° 29.89' W **Date:** 29-May-1993 **Time:** 0438

Depth (m)	Temp. (°C)
0.00	25.13
10.00	25.00
20.00	24.99
30.00	24.93
40.00	23.68
50.00	22.70
60.00	21.56
70.00	20.80
80.00	20.29
90.00	20.03
100.00	19.03
110.00	18.44
120.00	17.55
130.00	17.22
140.00	16.90
150.00	16.86
160.00	16.54
170.00	16.28
180.00	15.78
190.00	15.48
200.00	15.43
210.00	14.98

Cruise: GULFCET 05
Latitude: 28° 2.43' N

Station: 09-088
Longitude: 90° 49.99' W

Probe Type: T-10
Date: 28-May-1993 Time: 2116

Depth (m)	Temp. (°C)
0.00	25.66
10.00	25.51
20.00	25.16
30.00	24.28
40.00	22.56
50.00	21.97
60.00	20.94
70.00	20.39
80.00	20.00
90.00	19.43
100.00	19.23
110.00	18.74
120.00	18.37
130.00	17.82
140.00	17.58
150.00	17.44
160.00	17.14
170.00	16.86
180.00	16.51
190.00	16.38
200.00	15.49

Cruise: GULFCET 05
Latitude: 28° .03' N

Station: 09-089
Longitude: 90° 50.05' W

Probe Type: T-7
Date: 28-May-1993 Time: 2056

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.60	310.00	11.38
10.00	25.37	320.00	10.90
20.00	24.40		
30.00	23.05		
40.00	22.39		
50.00	21.47		
60.00	20.79		
70.00	20.31		
80.00	20.14		
90.00	19.35		
100.00	19.00		
110.00	18.38		
120.00	17.65		
130.00	17.37		
140.00	16.90		
150.00	16.47		
160.00	15.87		
170.00	15.74		
180.00	15.55		
190.00	15.30		
200.00	15.07		
210.00	14.85		
220.00	14.66		
230.00	13.97		
240.00	13.68		
250.00	13.23		
260.00	13.01		
270.00	12.52		
280.00	12.21		
290.00	12.11		
300.00	11.90		

Cruise: GULFCET 05
Latitude: 27° 52.01' N

Station: 09-090
Longitude: 90° 50.06' W

Probe Type: T-7
Date: 28-May-1993 Time: 1947

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.34	310.00	10.99
10.00	24.87	320.00	10.81
20.00	23.92	330.00	10.69
30.00	22.97	340.00	10.61
40.00	22.37	350.00	10.57
50.00	21.80	360.00	10.37
60.00	20.94	370.00	10.26
70.00	20.77	380.00	10.22
80.00	20.23	390.00	10.11
90.00	19.82	400.00	10.08
100.00	19.24	410.00	10.02
110.00	18.08	420.00	9.81
120.00	17.40		
130.00	16.93		
140.00	16.50		
150.00	16.10		
160.00	15.45		
170.00	15.07		
180.00	14.75		
190.00	14.23		
200.00	13.90		
210.00	13.44		
220.00	13.21		
230.00	12.93		
240.00	12.58		
250.00	12.34		
260.00	12.23		
270.00	11.94		
280.00	11.77		
290.00	11.65		
300.00	11.54		

Cruise: GULFCET 05
Latitude: 27° 45.96' N

Station: 09-091
Longitude: 90° 50.03' W

Probe Type: T-7
Date: 28-May-1993 Time: 1856

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.22	310.00	11.01	610.00	6.44
10.00	25.48	320.00	10.75	620.00	6.32
20.00	24.80	330.00	10.53	630.00	6.30
30.00	23.05	340.00	10.34	640.00	6.23
40.00	21.94	350.00	10.21	650.00	6.18
50.00	21.41	360.00	9.87	660.00	6.14
60.00	20.79	370.00	9.76		
70.00	20.39	380.00	9.56		
80.00	19.99	390.00	9.31		
90.00	19.51	400.00	9.14		
100.00	19.04	410.00	8.79		
110.00	18.47	420.00	8.63		
120.00	17.94	430.00	8.52		
130.00	17.19	440.00	8.40		
140.00	16.40	450.00	8.30		
150.00	15.92	460.00	8.13		
160.00	15.53	470.00	8.04		
170.00	15.19	480.00	8.00		
180.00	14.95	490.00	7.94		
190.00	14.54	500.00	7.85		
200.00	14.10	510.00	7.80		
210.00	13.89	520.00	7.75		
220.00	13.55	530.00	7.64		
230.00	13.13	540.00	7.43		
240.00	12.79	550.00	7.26		
250.00	12.48	560.00	7.07		
260.00	12.18	570.00	6.85		
270.00	11.89	580.00	6.73		
280.00	11.55	590.00	6.57		
290.00	11.31	600.00	6.49		
300.00	11.16				

Cruise: GULFCET 05
Latitude: 27° 39.48' N

Station: 09-092
Longitude: 90° 50.03' W

Probe Type: T-20
Date: 28-May-1993 Time: 1801

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.26	310.00	10.54	610.00	6.52
10.00	25.12	320.00	10.34	620.00	6.45
20.00	25.19	330.00	10.17	630.00	6.32
30.00	24.27	340.00	9.83	640.00	6.28
40.00	22.76	350.00	9.64	650.00	6.18
50.00	21.83	360.00	9.40	660.00	6.13
60.00	21.47	370.00	9.27	670.00	6.05
70.00	20.83	380.00	9.04	680.00	5.96
80.00	19.90	390.00	8.86	690.00	5.91
90.00	19.40	400.00	8.72		
100.00	18.58	410.00	8.62		
110.00	18.01	420.00	8.49		
120.00	17.12	430.00	8.35		
130.00	16.67	440.00	8.15		
140.00	16.25	450.00	8.03		
150.00	15.71	460.00	7.97		
160.00	15.21	470.00	7.86		
170.00	14.94	480.00	7.75		
180.00	14.42	490.00	7.62		
190.00	14.05	500.00	7.51		
200.00	13.93	510.00	7.40		
210.00	13.67	520.00	7.29		
220.00	13.26	530.00	7.22		
230.00	13.01	540.00	7.10		
240.00	12.72	550.00	6.97		
250.00	12.18	560.00	6.88		
260.00	11.83	570.00	6.84		
270.00	11.44	580.00	6.77		
280.00	11.13	590.00	6.67		
290.00	11.01	600.00	6.57		
300.00	10.83				

Cruise: GULFCET 05
Latitude: 27° 16.00' N

Station: 09-094
Longitude: 90° 50.00' W

Probe Type: T-20
Date: 28-May-1993 Time: 1348

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	24.94	310.00	9.68	610.00	6.12	910.00	4.80
10.00	24.73	320.00	9.38	620.00	6.08	920.00	4.75
20.00	24.61	330.00	9.15	630.00	6.06	930.00	4.74
30.00	24.67	340.00	9.07	640.00	5.97	940.00	4.74
40.00	23.45	350.00	8.90	650.00	5.93	950.00	4.68
50.00	22.59	360.00	8.67	660.00	5.85	960.00	4.66
60.00	21.34	370.00	8.54	670.00	5.80	970.00	4.63
70.00	20.19	380.00	8.45	680.00	5.74	980.00	4.60
80.00	19.78	390.00	8.33	690.00	5.68	990.00	4.57
90.00	19.07	400.00	8.21	700.00	5.62		
100.00	18.34	410.00	7.98	710.00	5.57		
110.00	17.54	420.00	7.73	720.00	5.52		
120.00	16.96	430.00	7.59	730.00	5.46		
130.00	15.96	440.00	7.45	740.00	5.43		
140.00	15.43	450.00	7.40	750.00	5.37		
150.00	14.95	460.00	7.31	760.00	5.35		
160.00	14.54	470.00	7.23	770.00	5.31		
170.00	14.04	480.00	7.14	780.00	5.21		
180.00	13.68	490.00	7.01	790.00	5.15		
190.00	13.20	500.00	6.92	800.00	5.15		
200.00	12.88	510.00	6.83	810.00	5.08		
210.00	12.48	520.00	6.74	820.00	5.05		
220.00	12.13	530.00	6.66	830.00	5.06		
230.00	11.85	540.00	6.59	840.00	5.04		
240.00	11.50	550.00	6.56	850.00	5.02		
250.00	11.13	560.00	6.43	860.00	4.99		
260.00	10.76	570.00	6.39	870.00	4.94		
270.00	10.57	580.00	6.28	880.00	4.92		
280.00	10.41	590.00	6.20	890.00	4.89		
290.00	10.05	600.00	6.15	900.00	4.84		
300.00	9.92						

Cruise: GULFCET 05
Latitude: 27° 11.50' N

Station: 10-098
Longitude: 90° 9.85' W

Probe Type: T-20
Date: 28-May-1993 Time: 0332

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.21	310.00	11.03	610.00	6.56
10.00	25.24	320.00	10.83	620.00	6.50
20.00	25.17	330.00	10.59	630.00	6.40
30.00	24.36	340.00	10.43	640.00	6.31
40.00	23.05	350.00	10.23	650.00	6.26
50.00	22.08	360.00	9.97	660.00	6.16
60.00	21.23	370.00	9.74		
70.00	20.57	380.00	9.47		
80.00	20.25	390.00	9.38		
90.00	19.63	400.00	9.15		
100.00	18.36	410.00	8.89		
110.00	17.67	420.00	8.75		
120.00	17.07	430.00	8.50		
130.00	16.45	440.00	8.32		
140.00	16.07	450.00	8.16		
150.00	15.76	460.00	8.05		
160.00	15.47	470.00	7.93		
170.00	15.10	480.00	7.80		
180.00	14.82	490.00	7.69		
190.00	14.42	500.00	7.54		
200.00	14.28	510.00	7.49		
210.00	13.76	520.00	7.42		
220.00	13.46	530.00	7.34		
230.00	13.19	540.00	7.24		
240.00	12.90	550.00	7.12		
250.00	12.47	560.00	7.04		
260.00	12.15	570.00	6.95		
270.00	11.81	580.00	6.88		
280.00	11.60	590.00	6.76		
290.00	11.50	600.00	6.68		
300.00	11.20				

Cruise: GULFCET 05
Latitude: 27° 40.35' N

Station: 10-099
Longitude: 90° 09.92' W

Probe Type: T-20
Date: 27-May-1993 Time: 2341

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.69	310.00	10.76	610.00	6.46
10.00	25.64	320.00	10.62	620.00	6.38
20.00	25.60	330.00	10.32	630.00	6.29
30.00	24.32	340.00	10.24	640.00	6.25
40.00	23.10	350.00	9.98	650.00	6.17
50.00	22.15	360.00	9.77	660.00	6.13
60.00	21.71	370.00	9.68	670.00	6.07
70.00	20.59	380.00	9.58	680.00	5.96
80.00	20.25	390.00	9.38	690.00	5.85
90.00	19.54	400.00	9.11	700.00	5.82
100.00	18.54	410.00	8.94	710.00	5.77
110.00	17.80	420.00	8.65	720.00	5.75
120.00	17.26	430.00	8.52	730.00	5.70
130.00	16.61	440.00	8.48	740.00	5.66
140.00	16.21	450.00	8.34	750.00	5.58
150.00	15.80	460.00	8.12	760.00	5.52
160.00	15.19	470.00	8.00	770.00	5.45
170.00	14.79	480.00	7.75	780.00	5.36
180.00	14.22	490.00	7.65	790.00	5.33
190.00	13.90	500.00	7.51	800.00	5.26
200.00	13.45	510.00	7.37	810.00	5.24
210.00	13.11	520.00	7.34	820.00	5.21
220.00	12.81	530.00	7.25	830.00	5.17
230.00	12.53	540.00	7.08	840.00	5.15
240.00	12.26	550.00	7.04	850.00	5.13
250.00	12.03	560.00	6.95		
260.00	11.91	570.00	6.80		
270.00	11.69	580.00	6.70		
280.00	11.47	590.00	6.62		
290.00	11.24	600.00	6.56		
300.00	11.06				

Cruise: GULFCET 05
Latitude: 27° 49.98' N

Station: 10-101
Longitude: 90° 09.88' W

Probe Type: T-7
Date: 27-May-1993 Time: 2151

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	24.97	310.00	11.27	610.00	6.56
10.00	24.96	320.00	10.99	620.00	6.49
20.00	24.18	330.00	10.69	630.00	6.39
30.00	23.25	340.00	10.39	640.00	6.32
40.00	22.40	350.00	10.10	650.00	6.26
50.00	21.43	360.00	9.93	660.00	6.19
60.00	20.71	370.00	9.78	670.00	6.08
70.00	20.19	380.00	9.60	680.00	6.02
80.00	19.80	390.00	9.49	690.00	5.95
90.00	19.00	400.00	9.37	700.00	5.81
100.00	17.90	410.00	9.17	710.00	5.73
110.00	17.59	420.00	8.97		
120.00	17.09	430.00	8.76		
130.00	16.64	440.00	8.57		
140.00	16.05	450.00	8.40		
150.00	15.59	460.00	8.37		
160.00	15.27	470.00	8.24		
170.00	14.94	480.00	8.15		
180.00	14.72	490.00	8.02		
190.00	14.27	500.00	7.82		
200.00	14.00	510.00	7.64		
210.00	13.72	520.00	7.54		
220.00	13.47	530.00	7.37		
230.00	13.25	540.00	7.25		
240.00	12.85	550.00	7.14		
250.00	12.59	560.00	7.06		
260.00	12.25	570.00	6.98		
270.00	12.00	580.00	6.88		
280.00	11.79	590.00	6.78		
290.00	11.52	600.00	6.67		
300.00	11.31				

Cruise: GULFCET 05
Latitude: 28° 01.57' N

Station: 10-102
Longitude: 90° 10.03' W

Probe Type: T-7
Date: 27-May-1993 Time: 2016

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.36	310.00	11.33
10.00	25.33	320.00	11.07
20.00	25.22	330.00	10.88
30.00	24.54	340.00	10.65
40.00	22.66	350.00	10.52
50.00	22.09	360.00	10.45
60.00	21.69	370.00	10.20
70.00	21.22	380.00	10.05
80.00	20.32	390.00	9.94
90.00	19.67	400.00	9.85
100.00	18.95	410.00	9.80
110.00	18.28	420.00	9.77
120.00	17.55	430.00	9.68
130.00	16.85	440.00	9.61
140.00	16.35	450.00	9.56
150.00	15.79	460.00	9.36
160.00	15.51	470.00	9.29
170.00	15.30	480.00	9.17
180.00	14.77	490.00	9.04
190.00	14.52	500.00	8.73
200.00	14.31		
210.00	14.20		
220.00	13.92		
230.00	13.46		
240.00	13.13		
250.00	12.83		
260.00	12.49		
270.00	12.29		
280.00	12.26		
290.00	11.91		
300.00	11.68		

Cruise: GULFCET 05
Latitude: 28° 03.94' N

Station: 10-103
Longitude: 90° 10.09' W

Probe Type: T-7
Date: 27-May-1993 Time: 1957

Depth (m)	Temp. (°C)
0.00	25.34
10.00	25.30
20.00	25.26
30.00	23.11
40.00	22.23
50.00	21.80
60.00	21.15
70.00	20.83
80.00	20.40
90.00	20.07
100.00	19.18
110.00	18.38
120.00	17.74
130.00	17.26
140.00	16.67
150.00	16.06
160.00	15.79
170.00	15.42
180.00	15.06
190.00	14.65
200.00	14.46
210.00	13.95
220.00	13.55
230.00	13.11
240.00	12.77
250.00	12.55
260.00	12.37
270.00	12.09
280.00	11.92
290.00	11.74
300.00	11.59

Depth (m)	Temp. (°C)
310.00	11.45
320.00	11.21
330.00	11.14
340.00	11.04
350.00	10.90
360.00	10.64

Cruise: GULFCET 05
Latitude: 28° 09.38' N

Station: 10-104
Longitude: 90° 09.77' W

Probe Type: T-10
Date: 27-May-1993 Time: 1903

Depth (m)	Temp. (°C)
0.00	24.32
10.00	25.24
20.00	24.07
30.00	23.47
40.00	22.37
50.00	21.22
60.00	20.76
70.00	20.50
80.00	20.34
90.00	19.84
100.00	19.38
110.00	18.99
120.00	18.43
130.00	17.69
140.00	17.32
150.00	17.10
160.00	16.82
170.00	16.48
180.00	16.34
190.00	16.19
200.00	15.54

Cruise: GULFCET 05
Latitude: 28° 35.96' N

Station: 11-107
Longitude: 89° 29.95' W

Probe Type: T-10
Date: 27-May-1993 **Time:** 0844

Depth (m)	Temp. (°C)
0.00	24.38
10.00	24.62
20.00	23.39
30.00	22.54
40.00	22.23
50.00	21.63
60.00	21.64
70.00	21.00
80.00	20.02
90.00	19.84
100.00	19.18
110.00	18.09
120.00	17.80
130.00	17.76
140.00	17.62
150.00	16.99
160.00	16.89

Cruise: GULFCET 05
Latitude: 28° 32.00' N

Station: 11-108
Longitude: 89° 30.05' W

Probe Type: T-7
Date: 27-May-1993 **Time:** 0810

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	24.86	310.00	11.28
10.00	24.81	320.00	11.14
20.00	23.42	330.00	11.05
30.00	22.76		
40.00	22.20		
50.00	21.44		
60.00	20.81		
70.00	20.50		
80.00	20.02		
90.00	19.40		
100.00	18.56		
110.00	17.87		
120.00	17.34		
130.00	17.11		
140.00	16.82		
150.00	16.43		
160.00	16.14		
170.00	15.58		
180.00	15.40		
190.00	14.94		
200.00	14.74		
210.00	14.35		
220.00	14.09		
230.00	13.70		
240.00	13.50		
250.00	13.09		
260.00	12.87		
270.00	12.52		
280.00	12.11		
290.00	11.91		
300.00	11.58		

Cruise: GULFCET 05
Latitude: 28° 27.79' N

Station: 11-109
Longitude: 89° 30.28' W

Probe Type: T-7
Date: 27-May-1993 Time: 0738

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.12	310.00	11.68
10.00	25.12	320.00	11.29
20.00	24.00	330.00	11.12
30.00	23.01	340.00	10.99
40.00	22.09	350.00	10.99
50.00	20.95	360.00	10.97
60.00	20.36	370.00	10.79
70.00	19.95	380.00	10.66
80.00	19.50	390.00	10.38
90.00	19.74	400.00	10.09
100.00	18.80	410.00	9.78
110.00	17.89	420.00	9.28
120.00	17.08	430.00	9.21
130.00	16.75	440.00	9.05
140.00	16.31	450.00	8.96
150.00	15.95	460.00	8.92
160.00	15.66	470.00	8.76
170.00	15.42	480.00	8.65
180.00	15.01	490.00	8.59
190.00	14.75	500.00	8.62
200.00	14.49	510.00	8.58
210.00	14.17	520.00	8.52
220.00	14.03	530.00	8.43
230.00	13.89	540.00	7.75
240.00	13.59		
250.00	13.27		
260.00	13.02		
270.00	12.69		
280.00	12.57		
290.00	12.29		
300.00	12.03		

Cruise: GULFCET 05
Latitude: 28° 21.51' N

Station: 11-110
Longitude: 89° 30.44' W

Probe Type: T-7
Date: 27-May-1993 Time: 0648

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.12	310.00	11.58	610.00	6.84
10.00	25.09	320.00	11.42	620.00	6.49
20.00	25.10	330.00	11.21	630.00	6.37
30.00	22.91	340.00	10.99	640.00	6.28
40.00	21.99	350.00	10.76	650.00	6.21
50.00	21.98	360.00	10.50	660.00	6.14
60.00	21.20	370.00	10.31	670.00	6.01
70.00	19.93	380.00	10.16	680.00	5.97
80.00	19.47	390.00	9.94	690.00	5.85
90.00	19.23	400.00	9.69		
100.00	18.36	410.00	9.64		
110.00	17.64	420.00	9.58		
120.00	17.10	430.00	9.55		
130.00	16.63	440.00	9.48		
140.00	16.29	450.00	9.33		
150.00	15.97	460.00	9.26		
160.00	15.66	470.00	9.20		
170.00	15.30	480.00	8.96		
180.00	15.07	490.00	8.71		
190.00	14.84	500.00	8.50		
200.00	14.51	510.00	8.37		
210.00	14.27	520.00	8.10		
220.00	13.87	530.00	7.91		
230.00	13.61	540.00	7.82		
240.00	13.46	550.00	7.68		
250.00	13.13	560.00	7.63		
260.00	12.99	570.00	7.40		
270.00	12.70	580.00	7.27		
280.00	12.45	590.00	7.24		
290.00	12.15	600.00	7.11		
300.00	11.78				

Cruise: GULFCET 05
Latitude: 28° 14.98' N

Station: 11-111
Longitude: 89° 30.01' W

Probe Type: T-20
Date: 27-May-1993 Time: 0555

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.66	310.00	11.68	610.00	6.75
10.00	25.57	320.00	11.40	620.00	6.67
20.00	25.52	330.00	11.19	630.00	6.63
30.00	23.30	340.00	10.85	640.00	6.58
40.00	22.36	350.00	10.59	650.00	6.48
50.00	21.14	360.00	10.42	660.00	6.44
60.00	20.69	370.00	10.24	670.00	6.37
70.00	20.36	380.00	10.07	680.00	6.35
80.00	20.03	390.00	9.99	690.00	6.28
90.00	19.07	400.00	9.81	700.00	6.23
100.00	18.49	410.00	9.61	710.00	6.14
110.00	17.91	420.00	9.31	720.00	6.08
120.00	17.38	430.00	9.14	730.00	6.02
130.00	16.98	440.00	9.02	740.00	5.93
140.00	16.59	450.00	8.84	750.00	5.90
150.00	16.29	460.00	8.67	760.00	5.87
160.00	16.01	470.00	8.60	770.00	5.77
170.00	15.63	480.00	8.46	780.00	5.73
180.00	15.20	490.00	8.34	790.00	5.66
190.00	14.87	500.00	8.20	800.00	5.59
200.00	14.55	510.00	8.13	810.00	5.55
210.00	14.35	520.00	8.15	820.00	5.52
220.00	14.09	530.00	7.95	830.00	5.48
230.00	13.85	540.00	7.85	840.00	5.43
240.00	13.57	550.00	7.61	850.00	5.39
250.00	13.28	560.00	7.47		
260.00	12.94	570.00	7.28		
270.00	12.64	580.00	7.14		
280.00	12.31	590.00	6.99		
290.00	12.15	600.00	6.88		
300.00	11.93				

Cruise: GULFCET 05
Latitude: 27° 37.91' N

Station: 11-113
Longitude: 89° 30.23' W

Probe Type: T-20
Date: 27-May-1993 Time: 0018

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.86	310.00	10.62	610.00	6.52	910.00	4.97
10.00	25.91	320.00	10.36	620.00	6.40	920.00	4.90
20.00	25.85	330.00	10.16	630.00	6.31	930.00	4.85
30.00	25.55	340.00	9.97	640.00	6.25	940.00	4.85
40.00	23.10	350.00	9.77	650.00	6.23	950.00	4.83
50.00	22.48	360.00	9.53	660.00	6.16	960.00	4.79
60.00	21.68	370.00	9.34	670.00	6.11	970.00	4.77
70.00	20.86	380.00	9.25	680.00	6.07	980.00	4.74
80.00	19.92	390.00	9.13	690.00	5.97	990.00	4.69
90.00	19.18	400.00	8.88	700.00	5.94		
100.00	18.61	410.00	8.67	710.00	5.89		
110.00	17.88	420.00	8.47	720.00	5.85		
120.00	17.22	430.00	8.37	730.00	5.77		
130.00	16.76	440.00	8.34	740.00	5.70		
140.00	16.28	450.00	8.26	750.00	5.65		
150.00	15.83	460.00	8.20	760.00	5.59		
160.00	15.26	470.00	7.98	770.00	5.55		
170.00	14.99	480.00	7.83	780.00	5.50		
180.00	14.45	490.00	7.62	790.00	5.42		
190.00	14.06	500.00	7.51	800.00	5.41		
200.00	13.69	510.00	7.45	810.00	5.31		
210.00	13.40	520.00	7.40	820.00	5.25		
220.00	12.98	530.00	7.28	830.00	5.24		
230.00	12.59	540.00	7.20	840.00	5.21		
240.00	12.29	550.00	7.12	850.00	5.15		
250.00	12.04	560.00	7.02	860.00	5.11		
260.00	11.86	570.00	6.92	870.00	5.07		
270.00	11.55	580.00	6.78	880.00	5.08		
280.00	11.30	590.00	6.70	890.00	5.04		
290.00	11.00	600.00	6.60	900.00	5.00		
300.00	10.92						

Cruise: GULFCET 05
Latitude: 28° 14.51' N

Station: 12-118
Longitude: 88° 50.08' W

Probe Type: T-20
Date: 26-May-1993 Time: 1645

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.61	310.00	9.09	610.00	6.06	910.00	4.89
10.00	25.60	320.00	8.98	620.00	6.02	920.00	4.86
20.00	25.59	330.00	8.88	630.00	5.98	930.00	4.84
30.00	25.54	340.00	8.78	640.00	5.91	940.00	4.83
40.00	25.41	350.00	8.64	650.00	5.83	950.00	4.76
50.00	24.95	360.00	8.55	660.00	5.81	960.00	4.74
60.00	23.80	370.00	8.40	670.00	5.76	970.00	4.70
70.00	22.59	380.00	8.31	680.00	5.72	980.00	4.67
80.00	21.26	390.00	8.01	690.00	5.69	990.00	4.67
90.00	20.41	400.00	7.91	700.00	5.65		
100.00	19.64	410.00	7.87	710.00	5.61		
110.00	18.37	420.00	7.87	720.00	5.58		
120.00	16.89	430.00	7.70	730.00	5.54		
130.00	16.14	440.00	7.59	740.00	5.48		
140.00	15.40	450.00	7.44	750.00	5.44		
150.00	14.82	460.00	7.26	760.00	5.42		
160.00	14.31	470.00	7.16	770.00	5.40		
170.00	13.87	480.00	7.06	780.00	5.37		
180.00	13.36	490.00	6.97	790.00	5.33		
190.00	12.98	500.00	6.92	800.00	5.32		
200.00	12.71	510.00	6.83	810.00	5.25		
210.00	12.45	520.00	6.73	820.00	5.22		
220.00	12.19	530.00	6.65	830.00	5.19		
230.00	11.88	540.00	6.56	840.00	5.12		
240.00	11.65	550.00	6.50	850.00	5.05		
250.00	11.33	560.00	6.41	860.00	5.01		
260.00	10.83	570.00	6.34	870.00	4.98		
270.00	10.43	580.00	6.24	880.00	4.96		
280.00	9.93	590.00	6.16	890.00	4.93		
290.00	9.60	600.00	6.09	900.00	4.93		
300.00	9.31						

Cruise: GULFCET 05
Latitude: 28° 43.46' N

Station: 12-120
Longitude: 88° 50.01' W

Probe Type: T-20
Date: 26-May-1993 Time: 1645

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.28	310.00	11.14
10.00	25.40	320.00	10.99
20.00	25.33	330.00	10.75
30.00	25.19	340.00	10.45
40.00	23.38	350.00	10.33
50.00	22.24	360.00	10.23
60.00	21.87	370.00	9.97
70.00	21.01	380.00	9.85
80.00	20.65	390.00	9.67
90.00	20.29	400.00	9.58
100.00	19.54	410.00	9.26
110.00	18.98	420.00	9.08
120.00	18.19	430.00	8.94
130.00	17.18	440.00	8.81
140.00	16.50	450.00	8.63
150.00	16.03	460.00	8.43
160.00	15.87	470.00	8.34
170.00	15.51	480.00	8.17
180.00	15.28	490.00	8.10
190.00	14.89	500.00	7.98
200.00	14.51	510.00	7.83
210.00	14.17	520.00	7.67
220.00	13.78		
230.00	13.42		
240.00	12.98		
250.00	12.77		
260.00	12.39		
270.00	12.09		
280.00	11.86		
290.00	11.61		
300.00	11.35		

Cruise: GULFCET 05
Latitude: 28° 46.99' N

Station: 12-121
Longitude: 88° 50.00' W

Probe Type: T-7
Date: 26-May-1993 Time: 1645

Depth (m)	Temp. (°C)
0.00	25.25
10.00	25.22
20.00	25.21
30.00	24.69
40.00	22.79
50.00	22.13
60.00	21.92
70.00	21.17
80.00	20.46
90.00	20.01
100.00	19.45
110.00	19.13
120.00	18.63

Cruise: GULFCET 05
Latitude: 28° 52.97' N

Station: 12-122
Longitude: 88° 49.93' W

Probe Type: T-7
Date: 26-May-1993 Time: 1645

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.31	310.00	11.65
10.00	25.12	320.00	11.30
20.00	25.32	330.00	11.08
30.00	24.24	340.00	10.86
40.00	23.32	350.00	10.68
50.00	22.67	360.00	10.59
60.00	21.68	370.00	10.36
70.00	21.02	380.00	10.24
80.00	20.90	390.00	10.22
90.00	20.28	400.00	10.19
100.00	19.60	410.00	10.14
110.00	19.20	420.00	9.96
120.00	18.52	430.00	9.52
130.00	18.04	440.00	9.26
140.00	17.54		
150.00	17.07		
160.00	16.33		
170.00	15.96		
180.00	15.58		
190.00	15.10		
200.00	14.63		
210.00	14.41		
220.00	13.96		
230.00	13.63		
240.00	13.27		
250.00	13.00		
260.00	12.52		
270.00	12.39		
280.00	12.24		
290.00	12.12		
300.00	12.00		

Cruise: GULFCET 05
Latitude: 28° 55.48' N

Station: 12-123
Longitude: 88° 49.83' W

Probe Type: T-7
Date: 26-May-1993 Time: 1645

Depth (m)	Temp. (°C)
0.00	24.98
10.00	25.17
20.00	25.24
30.00	25.06
40.00	23.74
50.00	22.86
60.00	21.85
70.00	21.90
80.00	20.85
90.00	20.40
100.00	19.95
110.00	19.50
120.00	18.99
130.00	18.41
140.00	17.91
150.00	17.47
160.00	17.05
170.00	16.74
180.00	16.43
190.00	16.07
200.00	15.68
210.00	15.47
220.00	15.05
230.00	14.60
240.00	14.42
250.00	14.11
260.00	13.35
270.00	12.87
280.00	12.50
290.00	11.98
300.00	11.93

Cruise: GULFCET 05
Latitude: 29° 00.01' N

Station: 12-124
Longitude: 88° 49.97' W

Probe Type: T-10
Date: 26-May-1993 Time: 1645

Depth (m)	Temp. (°C)
0.00	24.79
10.00	24.58
20.00	24.91
30.00	23.72
40.00	22.88
50.00	22.71
60.00	21.41
70.00	19.93
80.00	19.64
90.00	19.52
100.00	19.20
110.00	19.10
120.00	18.89
130.00	18.11
140.00	17.93
150.00	17.56
160.00	17.09
170.00	16.73
180.00	16.35
190.00	15.77

Cruise: GULFCET 05
Latitude: 27° 32.00' N

Station: 12-EX1
Longitude: 88° 50.00' W

Probe Type: T-7
Date: 26-May-1993 **Time:** 1645

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	26.03	310.00	9.32
10.00	26.05	320.00	9.19
20.00	26.08	330.00	9.10
30.00	26.05	340.00	8.98
40.00	24.63	350.00	8.79
50.00	23.27	360.00	8.60
60.00	21.68	370.00	8.46
70.00	20.67	380.00	8.27
80.00	19.97	390.00	8.15
90.00	18.96	400.00	8.09
100.00	18.11	410.00	8.07
110.00	17.08	420.00	7.99
120.00	16.57	430.00	7.93
130.00	15.42	440.00	7.73
140.00	14.63	450.00	7.68
150.00	13.88	460.00	7.64
160.00	13.38		
170.00	13.27		
180.00	12.58		
190.00	12.25		
200.00	12.00		
210.00	11.63		
220.00	11.22		
230.00	11.03		
240.00	10.64		
250.00	10.32		
260.00	9.82		
270.00	9.50		
280.00	9.41		
290.00	9.38		
300.00	9.36		

Cruise: GULFCET 05
Latitude: 29° 13.01' N

Station: 13-127
Longitude: 88° 10.13' W

Probe Type: T-10
Date: 25-May-1993 **Time:** 2119

Depth (m)	Temp. (°C)
0.00	24.69
10.00	24.37
20.00	23.30
30.00	21.92
40.00	21.08
50.00	19.90
60.00	20.15
70.00	20.98
80.00	20.31
90.00	19.92
100.00	19.32
110.00	18.62
120.00	18.20
130.00	17.72
140.00	17.17
150.00	16.70
160.00	16.15
170.00	15.75
180.00	15.35
190.00	14.75

Cruise: GULFCET 05
Latitude: 29° 10.47' N

Station: 13-128
Longitude: 88° 09.96' W

Probe Type: T-7
Date: 25-May-1993 Time: 2055

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	24.93	310.00	12.61
10.00	24.35	320.00	12.40
20.00	25.03	330.00	12.20
30.00	23.95	340.00	11.95
40.00	23.35	350.00	11.68
50.00	22.95	360.00	11.49
60.00	21.68		
70.00	20.84		
80.00	20.43		
90.00	19.67		
100.00	19.46		
110.00	19.07		
120.00	18.39		
130.00	17.77		
140.00	17.28		
150.00	16.79		
160.00	16.39		
170.00	16.04		
180.00	15.74		
190.00	15.35		
200.00	15.16		
210.00	14.94		
220.00	14.59		
230.00	14.32		
240.00	14.11		
250.00	13.88		
260.00	13.73		
270.00	13.55		
280.00	13.26		
290.00	13.01		
300.00	12.71		

Cruise: GULFCET 05
Latitude: 29° 04.95' N

Station: 13-130
Longitude: 88° 10.00' W

Probe Type: T-7
Date: 25-May-1993 Time: 2003

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	24.67	310.00	11.82	610.00	6.86
10.00	24.97	320.00	11.58	620.00	6.79
20.00	24.78	330.00	11.41	630.00	6.70
30.00	23.87	340.00	11.24	640.00	6.59
40.00	23.02	350.00	10.88	650.00	6.45
50.00	21.78	360.00	10.68	660.00	6.36
60.00	21.58	370.00	10.59	670.00	6.32
70.00	21.25	380.00	10.26	680.00	6.27
80.00	20.44	390.00	10.08	690.00	6.20
90.00	20.40	400.00	9.90	700.00	6.11
100.00	19.68	410.00	9.84		
110.00	18.78	420.00	9.72		
120.00	17.85	430.00	9.50		
130.00	17.29	440.00	9.31		
140.00	16.86	450.00	9.24		
150.00	16.44	460.00	9.06		
160.00	16.18	470.00	8.78		
170.00	16.05	480.00	8.73		
180.00	15.73	490.00	8.61		
190.00	15.46	500.00	8.46		
200.00	15.02	510.00	8.29		
210.00	14.65	520.00	8.07		
220.00	14.44	530.00	7.88		
230.00	14.18	540.00	7.73		
240.00	13.79	550.00	7.55		
250.00	13.48	560.00	7.43		
260.00	13.18	570.00	7.32		
270.00	12.92	580.00	7.19		
280.00	12.70	590.00	7.09		
290.00	12.42	600.00	6.95		
300.00	12.24				

Cruise: GULFCET 05
Latitude: 29° 02.95' N

Station: 13-131
Longitude: 88° 09.96' W

Probe Type: T-20
Date: 25-May-1993 Time: 1911

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	24.66	310.00	11.93	610.00	7.31
10.00	24.87	320.00	11.63	620.00	7.16
20.00	24.85	330.00	11.42	630.00	7.07
30.00	23.93	340.00	11.21	640.00	7.02
40.00	23.41	350.00	11.03	650.00	6.91
50.00	22.43	360.00	10.56	660.00	6.78
60.00	21.60	370.00	10.31	670.00	6.63
70.00	21.28	380.00	10.19	680.00	6.57
80.00	20.76	390.00	10.16	690.00	6.44
90.00	20.48	400.00	9.98		
100.00	19.34	410.00	9.83		
110.00	18.96	420.00	9.74		
120.00	18.38	430.00	9.65		
130.00	17.79	440.00	9.59		
140.00	17.32	450.00	9.51		
150.00	16.77	460.00	9.37		
160.00	16.33	470.00	9.19		
170.00	16.06	480.00	9.09		
180.00	15.75	490.00	8.99		
190.00	15.46	500.00	8.85		
200.00	15.20	510.00	8.78		
210.00	15.00	520.00	8.64		
220.00	14.65	530.00	8.57		
230.00	14.31	540.00	8.40		
240.00	14.01	550.00	8.21		
250.00	13.72	560.00	7.86		
260.00	13.45	570.00	7.66		
270.00	13.24	580.00	7.54		
280.00	12.94	590.00	7.43		
290.00	12.60	600.00	7.36		
300.00	12.26				

Cruise: GULFCET 05
Latitude: 28° 49.00' N

Station: 13-132
Longitude: 88° 10.00' W

Probe Type: T-20
Date: 25-May-1993 Time: 1711

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	25.50	310.00	11.60	610.00	7.01	910.00	5.23
10.00	25.39	320.00	11.43	620.00	6.93	920.00	5.20
20.00	25.29	330.00	11.23	630.00	6.86	930.00	5.18
30.00	24.29	340.00	11.04	640.00	6.80	940.00	5.16
40.00	23.63	350.00	10.83	650.00	6.76	950.00	5.12
50.00	22.42	360.00	10.67	660.00	6.68	960.00	5.10
60.00	22.00	370.00	10.47	670.00	6.57	970.00	5.08
70.00	21.58	380.00	10.25	680.00	6.47	980.00	5.03
80.00	21.01	390.00	10.06	690.00	6.36	990.00	4.98
90.00	20.49	400.00	9.98	700.00	6.31		
100.00	20.14	410.00	9.82	710.00	6.23		
110.00	19.55	420.00	9.61	720.00	6.17		
120.00	18.79	430.00	9.38	730.00	6.07		
130.00	17.80	440.00	9.30	740.00	6.00		
140.00	17.39	450.00	9.12	750.00	5.97		
150.00	16.68	460.00	8.96	760.00	5.91		
160.00	16.38	470.00	8.75	770.00	5.84		
170.00	15.77	480.00	8.63	780.00	5.81		
180.00	15.49	490.00	8.50	790.00	5.73		
190.00	15.11	500.00	8.33	800.00	5.69		
200.00	14.74	510.00	8.19	810.00	5.64		
210.00	14.39	520.00	8.06	820.00	5.58		
220.00	14.14	530.00	7.98	830.00	5.54		
230.00	13.82	540.00	7.86	840.00	5.50		
240.00	13.45	550.00	7.69	850.00	5.44		
250.00	13.18	560.00	7.58	860.00	5.40		
260.00	12.94	570.00	7.45	870.00	5.34		
270.00	12.68	580.00	7.33	880.00	5.33		
280.00	12.42	590.00	7.22	890.00	5.29		
290.00	12.14	600.00	7.13	900.00	5.25		
300.00	11.86						

Cruise: GULFCET 05
Latitude: 29° 03.88' N

Station: 14-137
Longitude: 87° 29.84' W

Probe Type: T-20
Date: 25-May-1993 Time: 0319

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	23.98	310.00	11.49	610.00	6.79
10.00	23.87	320.00	11.27	620.00	6.71
20.00	24.04	330.00	11.10	630.00	6.58
30.00	22.23	340.00	10.90	640.00	6.42
40.00	21.52	350.00	10.69	650.00	6.38
50.00	20.51	360.00	10.65	660.00	6.33
60.00	19.68	370.00	10.40	670.00	6.25
70.00	19.02	380.00	10.25	680.00	6.14
80.00	18.80	390.00	10.01		
90.00	18.42	400.00	9.81		
100.00	18.77	410.00	9.44		
110.00	18.46	420.00	9.20		
120.00	17.99	430.00	9.08		
130.00	17.48	440.00	8.84		
140.00	17.04	450.00	8.65		
150.00	16.79	460.00	8.46		
160.00	16.38	470.00	8.30		
170.00	15.89	480.00	8.17		
180.00	15.44	490.00	8.00		
190.00	15.10	500.00	7.91		
200.00	14.69	510.00	7.82		
210.00	14.31	520.00	7.79		
220.00	13.90	530.00	7.61		
230.00	13.64	540.00	7.51		
240.00	13.27	550.00	7.42		
250.00	12.92	560.00	7.31		
260.00	12.57	570.00	7.18		
270.00	12.34	580.00	7.08		
280.00	12.26	590.00	7.04		
290.00	11.98	600.00	6.97		
300.00	11.66				

Cruise: GULFCET 05
Latitude: 29° 15.02' N

Station: 14-138
Longitude: 87° 29.99' W

Probe Type: T-20
Date: 25-May-1993 Time: 0147

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	24.22	310.00	11.97	610.00	6.85
10.00	23.81	320.00	11.55	620.00	6.80
20.00	23.27	330.00	11.33	630.00	6.79
30.00	22.68	340.00	11.10	640.00	6.70
40.00	20.56	350.00	10.94	650.00	6.59
50.00	19.79	360.00	10.74	660.00	6.48
60.00	18.97	370.00	10.60	670.00	6.41
70.00	18.59	380.00	10.35	680.00	6.35
80.00	18.50	390.00	10.16	690.00	6.29
90.00	18.36	400.00	9.77	700.00	6.22
100.00	18.11	410.00	9.50	710.00	6.17
110.00	17.85	420.00	9.44	720.00	6.10
120.00	17.82	430.00	9.24	730.00	6.02
130.00	17.59	440.00	9.07	740.00	5.98
140.00	17.44	450.00	8.82	750.00	5.95
150.00	17.24	460.00	8.69	760.00	5.91
160.00	16.82	470.00	8.55	770.00	5.83
170.00	16.49	480.00	8.42	780.00	5.74
180.00	15.90	490.00	8.34	790.00	5.64
190.00	15.41	500.00	8.10		
200.00	15.20	510.00	8.00		
210.00	14.31	520.00	7.96		
220.00	14.00	530.00	7.78		
230.00	13.83	540.00	7.63		
240.00	13.69	550.00	7.56		
250.00	13.44	560.00	7.47		
260.00	13.20	570.00	7.32		
270.00	13.01	580.00	7.19		
280.00	12.62	590.00	7.10		
290.00	12.39	600.00	6.96		
300.00	12.19				

Cruise: GULFCET 05
Latitude: 29° 16.96' N

Station: 14-139
Longitude: 87° 30.04' W

Probe Type: T-7
Date: 25-May-1993 **Time:** 0130

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	24.23	310.00	11.83
10.00	23.79	320.00	11.65
20.00	23.37	330.00	11.54
30.00	22.20	340.00	11.29
40.00	20.35		
50.00	19.70		
60.00	18.88		
70.00	18.61		
80.00	18.39		
90.00	18.24		
100.00	17.99		
110.00	17.96		
120.00	17.73		
130.00	17.55		
140.00	17.21		
150.00	17.00		
160.00	16.74		
170.00	16.52		
180.00	15.97		
190.00	15.36		
200.00	15.10		
210.00	14.67		
220.00	14.34		
230.00	13.91		
240.00	13.43		
250.00	13.08		
260.00	12.91		
270.00	12.77		
280.00	12.38		
290.00	12.21		
300.00	12.19		

Cruise: GULFCET 05
Latitude: 29° 20.00' N

Station: 14-140
Longitude: 87° 30.00' W

Probe Type: T-7
Date: 25-May-1993 **Time:** 0107

Depth (m)	Temp. (°C)	Depth (m)	Temp. (°C)
0.00	24.68	310.00	11.93
10.00	23.88	320.00	11.85
20.00	23.77	330.00	11.73
30.00	23.64	340.00	11.64
40.00	22.09	350.00	11.38
50.00	20.37	360.00	10.97
60.00	19.69	370.00	10.66
70.00	18.75	380.00	10.23
80.00	18.40	390.00	10.08
90.00	18.17	400.00	9.84
100.00	18.01	410.00	9.70
110.00	17.95	420.00	9.53
120.00	18.16	430.00	9.28
130.00	18.07	440.00	9.19
140.00	17.67		
150.00	17.10		
160.00	16.57		
170.00	16.21		
180.00	15.84		
190.00	15.54		
200.00	15.12		
210.00	14.75		
220.00	14.31		
230.00	14.03		
240.00	13.78		
250.00	13.47		
260.00	13.11		
270.00	12.79		
280.00	12.70		
290.00	12.52		
300.00	12.38		

Cruise: GULFCET 05
Latitude: 29° 24.55' N

Station: 14-142
Longitude: 87° 29.94' W

Probe Type: T-10
Date: 25-May-1993 **Time:** 0025

Depth (m)	Temp. (°C)
0.00	23.73
10.00	23.89
20.00	22.96
30.00	20.94
40.00	20.59
50.00	20.16
60.00	19.37
70.00	19.13
80.00	18.82
90.00	18.23
100.00	18.07
110.00	17.93
120.00	17.89
130.00	17.44
140.00	17.05
150.00	16.46
160.00	15.96
170.00	15.79

CONDUCTIVITY/ TEMPERATURE/DEPTH (CTD) DATA:

- DATA SUMMARY TABLES
- PLOTS OF TEMPERATURE, SALINITY, AND SOUND VELOCITY VERSUS DEPTH
- PLOTS OF TEMPERATURE VERSUS SALINITY VERSUS DENSITY FOR : ALL CTD STATIONS, OFFSHORE STATIONS (STATIONS AT THE 2000 M ISOBATH), INSHORE STATIONS (STATIONS AT 100 M ISOBATH (EXCEPT STATIONS 11-106 AND 12-125)), AND EVERY TWO TRACK LINES COMBINED

Cruise: GULFCET 05 **Station:** 03-021
Date: 3-Jun-93 **Time:** 0432 **Lat:** 27 56.04 **Long:** 94 49.95
Depth: 102 m **Wind Dir:** 180 ° **Wind Speed:** 11. m/s **Wave Dir:** 180°
Barometer: 29.71 in. **Air Temp Dry:** 24.1 °C **Air Temp Wet:** 23.1 °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.480	25.478	31.104	20.257	748.65	1531.53	4.950	.182	10.07
20	22.516	22.512	33.855	23.205	466.69	1527.27	5.058	.347	20.14
30	22.371	22.365	35.425	24.438	349.43	1528.79	4.964	.370	30.20
50	19.881	19.872	35.726	25.349	263.39	1522.79	4.174	.311	50.34
75	19.357	19.343	35.851	25.581	242.16	1521.88	4.026	.272	75.52

Cruise: GULFCET 05 **Station:** 03-026
Date: 2-Jun-93 **Time:** 2352 **Lat:** 27 26.07 **Long:** 94 49.99
Depth: 905 m **Wind Dir:** 164.7° **Wind Speed:** 9.5 m/s **Wave Dir:** °
Barometer: 29.76 in **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.391	25.389	33.979	22.453	538.21	1534.40	4.915	.120	10.07
20	24.624	24.620	34.449	23.040	482.46	1533.22	4.999	.105	20.14
30	25.051	25.044	35.564	23.754	414.68	1535.63	4.910	.116	30.20
50	23.858	23.847	36.200	24.594	335.42	1533.74	4.983	.158	50.34
75	20.962	20.947	35.921	25.207	277.81	1526.37	4.211	.380	75.52
100	18.682	18.664	36.369	26.150	188.92	1520.97	3.397	.143	100.69
125	17.168	17.147	36.264	26.445	161.56	1516.86	3.140	.073	125.88
150	16.402	16.377	36.181	26.564	151.01	1514.88	3.094	.055	151.06
200	14.541	14.511	35.902	26.769	132.60	1509.60	3.074	.049	201.44
250	12.874	12.839	35.643	26.917	119.34	1504.69	2.991	.053	251.83
300	11.599	11.560	35.444	27.011	111.19	1500.96	2.952	.054	302.23
400	10.225	10.177	35.248	27.107	103.53	1497.57	2.869	.063	403.07

Cruise: GULFCET 05 **Station:** 03-029
Date: 2-Jun-93 **Time:** 1733 **Lat:** 26 45.93 **Long:** 94 50.03
Depth: 1420 m **Wind Dir:** 184 ° **Wind Speed:** 4.5 m/s **Wave Dir:** 180°
Barometer: 29.76 in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** 22 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.605	25.602	33.588	22.092	572.73	1534.49	4.950	.134	10.07
20	24.937	24.933	33.989	22.598	524.64	1533.49	4.987	.153	20.14
30	24.639	24.633	34.876	23.359	452.40	1533.89	4.967	.154	30.20
50	22.965	22.955	36.106	24.785	317.23	1531.40	4.930	.706	50.34
75	20.996	20.982	36.232	25.435	256.18	1526.81	4.475	.284	75.52
100	19.293	19.275	36.414	26.028	200.64	1522.75	3.747	.115	100.69
125	17.529	17.508	36.320	26.400	165.90	1517.99	3.194	.077	125.88
150	16.270	16.246	36.167	26.584	149.03	1514.46	3.142	.051	151.06
200	14.289	14.259	35.850	26.783	131.16	1508.73	3.158	.048	201.44
250	12.897	12.863	35.640	26.911	120.01	1504.76	2.968	.050	251.83
300	11.580	11.541	35.429	27.003	111.93	1500.88	3.118	.056	302.23
400	9.549	9.503	35.140	27.138	100.06	1495.01	3.067	.060	403.07

Cruise: GULFCET 05 **Station:** 03-030
Date: 2-Jun-93 **Time:** 1135 **Lat:** 26 16.99 **Long:** 94 49.99
Depth: 2000 m **Wind Dir:** 195 ° **Wind Speed:** 4.4 m/s **Wave Dir:** 220°
Barometer: 29.80 in. **Air Temp Dry:** 28 °C **Air Temp Wet:** 25 °C **Secchi Depth:** 25 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.930	24.928	35.057	23.408	446.96	1534.45	5.051	.091	10.07
20	24.910	24.906	35.614	23.835	406.61	1535.18	5.101	.103	20.14
30	24.725	24.718	35.893	24.102	381.56	1535.20	5.045	.121	30.20
50	22.870	22.860	35.942	24.687	326.46	1530.98	5.340	.217	50.34
75	21.326	21.312	36.078	25.227	275.99	1527.52	5.557	.186	75.52
100	19.547	19.529	36.332	25.899	212.89	1523.37	4.238	.299	100.69
125	18.082	18.060	36.386	26.314	174.13	1519.68	3.497	.137	125.88
150	16.223	16.199	36.143	26.576	149.79	1514.29	3.429	.057	151.06
200	13.947	13.918	35.815	26.829	126.73	1507.58	3.285	.051	201.44
250	12.681	12.647	35.611	26.931	117.97	1504.01	3.238	.049	251.83
300	11.559	11.521	35.440	27.016	110.70	1500.82	3.185	.053	302.23
400	9.046	9.002	35.096	27.186	95.12	1493.12	3.269	.056	403.07
500	7.079	7.031	34.922	27.347	79.99	1487.15	3.698	.057	503.96

Cruise: GULFCET 05 **Station:** 04-031
Date: 2-Jun-93 **Time:** 0722 **Lat:** 26 17.02 **Long:** 94 10.00
Depth: 2000 m **Wind Dir:** 183 ° **Wind Speed:** 4.8 m/s **Wave Dir:** °
Barometer: 29.78 in. **Air Temp Dry:** 23.4 °C **Air Temp Wet:** 22.6 °C **Secchi Depth:** 30 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.484	25.481	34.936	23.147	471.86	1535.65	4.866	.107	10.07
20	24.862	24.858	35.751	23.953	395.35	1535.21	4.879	.084	20.14
30	22.876	22.870	35.773	24.557	338.10	1530.47	5.238	.090	30.20
50	21.364	21.354	36.066	25.207	276.92	1527.19	5.351	.129	50.34
75	19.943	19.929	36.262	25.741	227.01	1523.98	4.564	.387	75.52
100	17.631	17.614	36.330	26.383	166.67	1517.88	3.226	.204	100.69
125	15.783	15.763	36.084	26.633	143.56	1512.45	3.264	.097	125.88
150	14.570	14.548	35.905	26.765	131.54	1508.86	3.203	.057	151.06
200	12.906	12.879	35.650	26.916	118.13	1503.97	3.062	.053	201.44
250	11.323	11.292	35.422	27.046	106.55	1499.15	3.076	.057	251.83
300	10.125	10.089	35.236	27.115	100.52	1495.54	3.079	.056	302.23
400	8.670	8.626	35.053	27.212	92.36	1491.67	3.169	.061	403.07
500	7.276	7.227	34.926	27.322	82.50	1487.91	3.381	.062	503.96

Cruise: GULFCET 05 **Station:** 04-033
Date: 2-Jun-93 **Time:** 0232 **Lat:** 26 46.00 **Long:** 94 09.98
Depth: 1350 m **Wind Dir:** 200 ° **Wind Speed:** 4.5 m/s **Wave Dir:** °
Barometer: 29.77 in. **Air Temp Dry:** 23 °C **Air Temp Wet:** 22 °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.057	25.055	35.267	23.528	435.49	1534.99	4.934	.112	10.07
20	24.067	24.062	35.575	24.058	385.26	1533.07	5.114	.096	20.14
30	23.186	23.179	35.773	24.468	346.58	1531.26	5.150	.095	30.20
50	21.703	21.693	36.170	25.192	278.41	1528.20	5.334	.132	50.34
75	20.180	20.165	36.277	25.689	231.94	1524.64	4.765	.313	75.52
100	18.203	18.186	36.406	26.300	174.66	1519.64	3.215	.176	100.69
125	16.637	16.616	36.224	26.542	152.30	1515.22	3.147	.105	125.88
150	15.564	15.540	36.063	26.666	141.11	1512.17	3.246	.064	151.06
200	13.752	13.723	35.773	26.838	125.82	1506.90	3.268	.055	201.44
250	12.159	12.126	35.517	26.961	114.94	1502.14	3.130	.056	251.83
300	10.920	10.882	35.341	27.056	106.54	1498.48	3.061	.061	302.23
400	9.264	9.218	35.120	27.170	96.83	1493.94	3.052	.061	403.07

Cruise: GULFCET 05 **Station:** 04-036
Date: 1-Jun-93 **Time:** 2020 **Lat:** 27 26.02 **Long:** 94 09.98
Depth: 826 m **Wind Dir:** 39 ° **Wind Speed:** 3.7 m/s **Wave Dir:** °
Barometer: 29.82 in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.955	24.952	34.194	22.748	509.99	1533.58	4.964	.111	10.07
20	24.129	24.125	34.885	23.518	436.83	1532.48	5.064	.104	20.14
30	22.647	22.641	35.567	24.467	346.71	1529.66	5.272	.113	30.20
50	20.725	20.715	35.781	25.165	280.89	1525.16	5.333	.202	50.34
75	19.617	19.603	36.226	25.799	221.44	1523.03	4.284	.359	75.52
100	18.291	18.274	36.356	26.240	180.40	1519.84	3.299	.162	100.69
125	16.641	16.621	36.207	26.528	153.67	1515.21	3.188	.085	125.88
150	15.874	15.850	36.105	26.628	144.79	1513.18	3.269	.064	151.06
200	13.874	13.845	35.784	26.821	127.49	1507.31	3.232	.055	201.44
250	12.510	12.476	35.568	26.932	117.82	1503.38	3.198	.055	251.83
300	11.207	11.169	35.368	27.025	109.66	1499.52	3.143	.059	302.23
400	9.514	9.468	35.135	27.140	99.82	1494.87	3.067	.061	403.07

Cruise: GULFCET 05 **Station:** 04-042
Date: 1-Jun-93 **Time:** 1350 **Lat:** 27 54.07 **Long:** 94 10.15
Depth: 96 m **Wind Dir:** 32.5 ° **Wind Speed:** 5.3 m/s **Wave Dir:** 30 °
Barometer: 29.83 in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** 27 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.705	24.703	34.028	22.697	514.81	1532.80	5.005	.136	10.07
20	24.046	24.041	35.272	23.835	406.54	1532.69	4.997	.142	20.14
30	22.358	22.352	35.646	24.609	333.10	1529.00	5.246	.139	30.20
50	20.608	20.599	36.006	25.368	261.61	1525.09	5.189	.458	50.34
75	19.323	19.310	36.041	25.735	227.52	1522.00	4.527	.346	75.52

Cruise: GULFCET 05 **Station:** 05-043
Date: 1-Jun-93 **Time:** 1010 **Lat:** 27 59.93 **Long:** 93 30.00
Depth: 94 m **Wind Dir:** 30 ° **Wind Speed:** 21 m/s **Wave Dir:** 30 °
Barometer: 29.84 in. **Air Temp Dry:** 24 °C **Air Temp Wet:** 21 °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.989	24.987	34.572	23.023	483.68	1534.07	5.157	.101	10.07
20	23.350	23.346	35.317	24.074	383.71	1531.01	5.373	.101	20.14
30	21.723	21.717	35.448	24.637	330.46	1527.12	5.541	.120	30.20
50	21.631	21.621	36.192	25.228	274.93	1528.04	5.473	.170	50.34
75	19.455	19.441	36.148	25.783	223.01	1522.49	4.639	.403	75.52

Cruise: GULFCET 05 **Station:** 05-047
Date: 1-Jun-93 **Time:** 0432 **Lat:** 26.02 **Long:** 93 29.98
Depth: 575 m **Wind Dir:** ° **Wind Speed:** m/s **Wave Dir:** °
Barometer: in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.910	24.907	35.117	23.459	442.08	1534.47	4.896	.112	10.07
20	24.454	24.450	35.354	23.775	412.24	1533.79	4.996	.096	20.14
30	23.036	23.030	35.920	24.623	331.84	1531.04	5.213	.100	30.20
50	22.178	22.168	36.034	24.955	300.98	1529.29	5.340	.125	50.34
75	20.499	20.485	36.247	25.581	242.26	1525.48	4.918	.265	75.52
100	18.783	18.765	36.467	26.200	184.24	1521.37	3.643	.192	100.69
125	17.105	17.084	36.256	26.454	160.70	1516.66	3.364	.131	125.88
150	16.693	16.668	36.210	26.518	155.41	1515.79	3.315	.088	151.06
200	15.134	15.103	35.982	26.700	139.29	1511.57	3.294	.057	201.44
250	13.026	12.991	35.644	26.887	122.26	1505.19	3.382	.055	251.83
300	11.620	11.581	35.441	27.005	111.73	1501.03	3.283	.060	302.23
400	9.652	9.606	35.151	27.130	100.94	1495.40	3.172	.062	403.07
500	8.125	8.073	34.963	27.226	92.44	1491.19	3.271	.065	503.96

Cruise: GULFCET 05 **Station:** 05-050
Date: 31-May-93 **Time:** 2224 **Lat:** 26 46.01 **Long:** 93 29.99
Depth: 1470 m **Wind Dir:** 3.8 ° **Wind Speed:** 4.4 m/s **Wave Dir:** °
Barometer: 29.81 in. **Air Temp Dry:** 24.5 °C **Air Temp Wet:** 23.5 °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.095	25.093	34.661	23.058	480.33	1534.43	4.864	.139	10.07
20	24.676	24.672	35.852	24.085	382.71	1534.87	4.954	.132	20.14
30	22.991	22.985	35.932	24.645	329.73	1530.94	5.192	.128	30.20
50	21.560	21.551	36.086	25.168	280.67	1527.73	5.313	.167	50.34
75	20.079	20.065	36.290	25.727	228.41	1524.38	5.106	.333	75.52
100	17.919	17.902	36.343	26.322	172.49	1518.74	3.289	.175	100.69
125	16.350	16.330	36.165	26.564	150.17	1514.28	3.180	.095	125.88
150	15.363	15.340	36.023	26.681	139.70	1511.50	3.120	.054	151.06
200	13.764	13.735	35.773	26.835	126.07	1506.94	3.053	.053	201.44
250	11.890	11.857	35.478	26.982	112.81	1501.17	3.088	.056	251.83
300	10.806	10.769	35.331	27.069	105.21	1498.07	2.981	.056	302.23
400	8.999	8.954	35.093	27.191	94.61	1492.94	3.097	.062	403.07

Cruise: GULFCET 05 **Station:** 05-053
Date: 31-May-93 **Time:** 1645 **Lat:** 26 09.98 **Long:** 93 30.07
Depth: 2000 m **Wind Dir:** 22.4 ° **Wind Speed:** 4.3 m/s **Wave Dir:** 10 °
Barometer: 29.75 in. **Air Temp Dry:** 24.8 °C **Air Temp Wet:** 22.5 °C **Secchi Depth:** 26 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.372	25.370	35.396	23.528	435.45	1535.88	4.822	.176	10.07
20	24.870	24.866	35.660	23.882	402.13	1535.13	4.920	.103	20.14
30	23.240	23.234	35.984	24.612	332.88	1531.63	5.160	.111	30.20
50	21.421	21.411	36.145	25.251	272.77	1527.43	5.329	.147	50.34
75	19.951	19.937	36.294	25.764	224.85	1524.03	4.897	.306	75.52
100	18.351	18.334	36.348	26.218	182.47	1520.00	3.489	.163	100.69
125	16.127	16.107	36.127	26.586	148.02	1513.56	3.071	.103	125.88
150	14.565	14.543	35.888	26.753	132.64	1508.82	3.012	.060	151.06
200	11.832	11.806	35.476	26.992	110.57	1500.14	3.061	.056	201.44
250	10.230	10.200	35.248	27.106	100.30	1495.10	3.105	.060	251.83
300	9.336	9.302	35.123	27.160	95.77	1492.55	3.132	.062	302.23
400	7.882	7.841	34.978	27.274	85.87	1488.63	3.174	.063	403.07

Cruise: GULFCET 05 **Station:** 06-054
Date: 31-May-93 **Time:** 1225 **Lat:** 26 13.95 **Long:** 92 49.94
Depth: 2000 m **Wind Dir:** 318 ° **Wind Speed:** 6.3 m/s **Wave Dir:** 310°
Barometer: 29.80 in. **Air Temp Dry:** 23.5 °C **Air Temp Wet:** 22.5 °C **Secchi Depth:** 26 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.804	25.802	35.605	23.553	433.11	1537.13	4.696	.095	10.07
20	26.099	26.095	35.988	23.750	414.76	1538.39	4.656	.088	20.14
30	24.816	24.809	35.885	24.068	384.77	1535.41	4.816	.100	30.20
50	22.671	22.660	36.110	24.872	308.87	1530.65	4.694	.622	50.34
75	19.928	19.914	36.379	25.834	218.18	1524.07	3.626	.277	75.52
100	17.842	17.825	36.363	26.357	169.22	1518.54	3.213	.097	100.69
125	16.256	16.236	36.154	26.577	148.89	1513.99	3.093	.056	125.88
150	15.238	15.215	36.002	26.693	138.52	1511.08	3.132	.055	151.06
200	13.259	13.231	35.693	26.878	121.84	1505.19	3.025	.053	201.44
250	11.605	11.573	35.441	27.008	110.27	1500.15	2.995	.057	251.83
300	10.407	10.371	35.264	27.088	103.23	1496.58	3.039	.059	302.23
400	8.926	8.882	35.083	27.196	94.16	1492.66	2.932	.063	403.07

Cruise: GULFCET 05 **Station:** 06-055
Date: 31-May-93 **Time:** 0719 **Lat:** 26 46.03 **Long:** 92 50.03
Depth: 1745 m **Wind Dir:** 60 ° **Wind Speed:** 2.4 m/s **Wave Dir:** 320°
Barometer: 29.77 in. **Air Temp Dry:** 24.5 °C **Air Temp Wet:** 25.2 °C **Secchi Depth:** 26 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.416	25.414	35.015	23.227	464.17	1535.57	4.880	.104	10.07
20	24.975	24.970	35.685	23.869	403.38	1535.41	4.798	.090	20.14
30	23.686	23.679	35.843	24.374	355.54	1532.59	5.024	.091	30.20
50	21.574	21.564	36.056	25.141	283.21	1527.73	5.127	.144	50.34
75	19.872	19.858	36.319	25.803	221.11	1523.84	4.000	.267	75.52
100	18.224	18.207	36.358	26.258	178.69	1519.64	3.266	.157	100.69
125	16.658	16.637	36.225	26.537	152.76	1515.29	3.200	.093	125.88
150	15.618	15.594	36.073	26.662	141.55	1512.35	3.207	.065	151.06
200	13.865	13.836	35.800	26.835	126.16	1507.30	3.216	.050	201.44
250	12.413	12.379	35.567	26.950	116.05	1503.05	3.138	.056	251.83
300	11.501	11.462	35.424	27.014	110.86	1500.60	3.059	.058	302.23
400	9.526	9.480	35.162	27.159	98.09	1494.95	2.988	.060	403.07

Cruise: GULFCET 05 **Station:** 06-059
Date: 31-May-93 **Time:** 0109 **Lat:** 27 25.94 **Long:** 92 50.00
Depth: 1035 m **Wind Dir:** ° **Wind Speed:** m/s **Wave Dir:** °
Barometer: in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.906	24.904	35.783	23.964	393.90	1535.18	4.872	.093	10.07
20	24.776	24.772	36.154	24.284	363.79	1535.43	4.905	.088	20.14
30	23.884	23.878	36.209	24.593	334.68	1533.48	5.039	.094	30.20
50	22.742	22.732	36.216	24.933	303.13	1530.95	5.220	.133	50.34
75	20.377	20.363	36.405	25.735	227.65	1525.33	4.567	.345	75.52
100	19.044	19.026	36.484	26.146	189.38	1522.13	3.737	.191	100.69
125	17.384	17.363	36.320	26.436	162.45	1517.56	3.527	.133	125.88
150	16.067	16.043	36.139	26.609	146.63	1513.81	3.496	.070	151.06
200	14.468	14.438	35.889	26.775	132.03	1509.35	3.461	.056	201.44
250	12.905	12.870	35.620	26.893	121.65	1504.77	3.332	.056	251.83
300	11.467	11.428	35.410	27.010	111.23	1500.47	3.268	.059	302.23
400	9.446	9.401	35.122	27.141	99.71	1494.61	3.176	.061	403.07
500	7.666	7.615	34.932	27.270	87.77	1489.41	3.319	.064	503.96

Cruise: GULFCET 05 **Station:** 06-064
Date: 30-May-93 **Time:** 1934 **Lat:** 28 01.98 **Long:** 92 50.08
Depth: 96 m **Wind Dir:** 107 ° **Wind Speed:** 3.6 m/s **Wave Dir:** 90 °
Barometer: 29.79 in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** 37 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.234	25.231	36.180	24.164	374.87	1536.39	4.855	.083	10.07
20	24.899	24.894	36.180	24.266	365.47	1535.76	4.875	.077	20.14
30	23.916	23.909	36.235	24.604	333.71	1533.59	5.055	.089	30.20
50	22.771	22.761	36.401	25.064	290.61	1531.23	5.165	.117	50.34
75	20.237	20.223	36.319	25.706	230.32	1524.85	4.588	.477	75.52

Cruise: GULFCET 05 **Station:** 07-065
Date: 30-May-93 **Time:** 1540 **Lat:** 28 02.01 **Long:** 92 10.00
Depth: 101 m **Wind Dir:** 85 ° **Wind Speed:** 2.8 m/s **Wave Dir:** 90 °
Barometer: 29.82 in. **Air Temp Dry:** 26 °C **Air Temp Wet:** 23.5 °C **Secchi Depth:** 27 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.047	25.045	36.116	24.172	374.01	1535.88	4.776	.093	10.07
20	24.789	24.785	36.099	24.238	368.14	1535.41	4.832	.085	20.14
30	23.481	23.475	36.215	24.717	322.92	1532.48	5.078	.092	30.20
50	22.561	22.551	36.295	25.045	292.47	1530.57	5.182	.116	50.34
75	20.828	20.814	36.501	25.686	232.35	1526.66	4.460	.416	75.52

Cruise: GULFCET 05 **Station:** 07-071
Date: 30-May-93 **Time:** 0946 **Lat:** 27 26.02 **Long:** 92 10.00
Depth: 814 m **Wind Dir:** 42 ° **Wind Speed:** 3.3 m/s **Wave Dir:** °
Barometer: 29.88 in. **Air Temp Dry:** 26 °C **Air Temp Wet:** 24 °C **Secchi Depth:** 30 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.088	25.085	35.920	24.012	389.31	1535.76	4.911	.083	10.07
20	24.690	24.686	36.083	24.256	366.46	1535.15	4.978	.074	20.14
30	23.396	23.390	36.257	24.774	317.50	1532.32	5.232	.085	30.20
50	22.232	22.222	36.293	25.137	283.68	1529.72	5.384	.113	50.34
75	20.723	20.709	36.450	25.675	233.33	1526.32	4.789	.312	75.52
100	19.582	19.564	36.625	26.113	192.55	1523.80	3.917	.189	100.69
125	18.400	18.378	36.513	26.332	172.55	1520.75	3.884	.111	125.88
150	17.406	17.380	36.370	26.469	160.21	1518.10	4.050	.063	151.06
200	15.524	15.493	36.063	26.675	141.82	1512.88	3.652	.055	201.44
250	13.524	13.488	35.732	26.854	125.66	1506.94	3.576	.053	251.83
300	12.185	12.145	35.518	26.956	116.63	1503.06	3.451	.057	302.23
400	9.993	9.946	35.196	27.107	103.36	1496.68	3.289	.062	403.07
500	8.430	8.376	34.999	27.208	94.42	1492.38	3.305	.062	503.96

Cruise: GULFCET 05 Station: 07-073
 Date: 30-May-93 Time: 0104 Lat: 26 45.93 Long: 92 10.00
 Depth: 1800 m Wind Dir: ° Wind Speed: m/s Wave Dir: °
 Barometer: in. Air Temp Dry: °C Air Temp Wet: °C Secchi Depth: m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.450	25.448	36.102	24.038	386.86	1536.82	4.755	.077	10.07
20	24.805	24.800	36.037	24.187	373.06	1535.38	4.852	.075	20.14
30	23.722	23.716	36.129	24.580	335.92	1532.99	4.994	.122	30.20
50	22.752	22.741	36.397	25.067	290.35	1531.17	5.096	.109	50.34
75	20.594	20.580	36.254	25.561	244.17	1525.75	5.093	.220	75.52
100	19.688	19.669	36.364	25.887	214.04	1523.80	4.350	.254	100.69
125	17.625	17.603	36.346	26.398	166.17	1518.30	3.419	.150	125.88
150	16.488	16.463	36.210	26.566	150.84	1515.17	3.445	.089	151.06
200	14.699	14.668	35.923	26.751	134.35	1510.12	3.302	.056	201.44
250	13.001	12.966	35.649	26.896	121.40	1505.12	3.184	.055	251.83
300	11.905	11.865	35.479	26.980	114.22	1502.06	3.129	.059	302.23
400	9.638	9.592	35.151	27.132	100.71	1495.34	3.113	.066	403.07
500	8.008	7.956	34.965	27.245	90.50	1490.75	3.037	.069	503.96

Cruise: GULFCET 05 Station: 07-075
 Date: 29-May-93 Time: 2028 Lat: 26 17.02 Long: 92 10.06
 Depth: 2000 m Wind Dir: 43 ° Wind Speed: 5.2 m/s Wave Dir: °
 Barometer: 29.90 in. Air Temp Dry: 25.2 °C Air Temp Wet: 24 °C Secchi Depth: m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	26.609	26.606	36.056	23.640	424.79	1539.47	4.587	.059	10.07
20	25.989	25.985	36.049	23.830	407.08	1538.20	4.638	.060	20.14
30	25.441	25.434	36.089	24.031	388.30	1537.13	4.689	.072	30.20
50	23.629	23.618	36.253	24.702	325.14	1533.23	5.011	.094	50.34
75	21.437	21.422	36.062	25.184	280.11	1527.80	5.230	.170	75.52
100	20.001	19.983	36.306	25.759	226.21	1524.61	4.358	.261	100.69
125	17.623	17.602	36.314	26.373	168.49	1518.26	3.175	.123	125.88
150	16.534	16.509	36.201	26.548	152.49	1515.30	3.122	.060	151.06
200	14.328	14.298	35.864	26.786	130.93	1508.87	3.089	.050	201.44
250	12.790	12.755	35.620	26.917	119.39	1504.38	2.986	.055	251.83
300	11.244	11.206	35.389	27.034	108.78	1499.67	2.903	.056	302.23
400	9.727	9.681	35.178	27.138	100.21	1495.70	2.910	.063	403.07

Cruise: GULFCET 05 Station: 08-076
 Date: 29-May-93 Time: 1538 Lat: 26 36.91 Long: 91 29.82
 Depth: 2000 m Wind Dir: 52.8 ° Wind Speed: 4.1 m/s Wave Dir: 80 °
 Barometer: 29.90 in. Air Temp Dry: 26 °C Air Temp Wet: 24.5 °C Secchi Depth: 28 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.172	25.170	35.862	23.942	396.00	1535.90	4.986	.145	10.07
20	24.925	24.921	36.333	24.374	355.22	1535.99	5.009	.087	20.14
30	24.695	24.688	36.344	24.452	348.15	1535.61	5.001	.098	30.20
50	21.560	21.550	36.388	25.398	258.81	1528.06	5.192	.221	50.34
75	19.822	19.808	36.471	25.933	208.81	1523.88	4.138	.285	75.52
100	17.881	17.863	36.361	26.346	170.29	1518.65	3.527	.178	100.69
125	16.415	16.395	36.187	26.565	150.05	1514.51	3.386	.092	125.88
150	15.264	15.241	36.008	26.691	138.68	1511.17	3.379	.067	151.06
200	13.509	13.480	35.730	26.855	124.10	1506.06	3.193	.055	201.44
250	12.167	12.134	35.520	26.962	114.86	1502.17	3.273	.058	251.83
300	11.090	11.052	35.352	27.034	108.75	1499.09	3.198	.063	302.23
400	9.036	8.992	35.076	27.172	96.42	1493.06	3.086	.065	403.07

Cruise: GULFCET 05 **Station:** 08-080
Date: 29-May-93 **Time:** 0819 **Lat:** 27 25.97 **Long:** 91 30.06
Depth: 950 m **Wind Dir:** 83 ° **Wind Speed:** 5.7 m/s **Wave Dir:** 300°
Barometer: 29.97 in. **Air Temp Dry:** 26 °C **Air Temp Wet:** 24.2 °C **Secchi Depth:** 30 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.016	25.014	36.109	24.177	373.60	1535.80	4.858	.083	10.07
20	24.731	24.726	36.208	24.339	358.56	1535.38	4.900	.087	20.14
30	23.815	23.808	36.405	24.762	318.62	1533.52	4.950	.100	30.20
50	22.645	22.634	36.605	25.256	272.41	1531.13	4.542	.379	50.34
75	20.499	20.484	36.481	25.760	225.29	1525.74	4.006	.189	75.52
100	17.990	17.972	36.383	26.335	171.30	1518.99	3.475	.127	100.69
125	16.678	16.657	36.217	26.527	153.76	1515.34	3.191	.091	125.88
150	15.604	15.580	36.063	26.657	141.97	1512.29	3.292	.061	151.06
200	13.555	13.526	35.728	26.844	125.20	1506.20	3.539	.055	201.44
250	12.081	12.048	35.494	26.958	115.14	1501.84	3.410	.055	251.83
300	11.147	11.109	35.347	27.020	110.10	1499.28	3.304	.061	302.23
400	9.856	9.809	35.161	27.103	103.61	1496.14	3.224	.062	403.07

Cruise: GULFCET 05 **Station:** 08-086
Date: 29-May-93 **Time:** 0215 **Lat:** 28 07.52 **Long:** 91 30.03
Depth: 100 m **Wind Dir:** 87 ° **Wind Speed:** 8 m/s **Wave Dir:** °
Barometer: 29.94 in. **Air Temp Dry:** 24.2 °C **Air Temp Wet:** 23 °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.038	25.036	36.212	24.248	366.85	1535.96	4.723	.100	10.07
20	24.827	24.822	36.292	24.373	355.30	1535.71	4.786	.099	20.14
30	24.208	24.202	36.290	24.558	338.07	1534.37	4.814	.111	30.20
50	22.745	22.735	36.638	25.252	272.77	1531.42	4.616	.328	50.34
75	19.733	19.719	36.203	25.751	225.99	1523.33	3.853	.255	75.52
100	19.266	19.248	36.287	25.938	209.17	1522.54	0.000	.203	100.69

Cruise: GULFCET 05 **Station:** 09-087
Date: 28-May-93 **Time:** 2221 **Lat:** 28 09.09 **Long:** 90 50.09
Depth: 99 m **Wind Dir:** ° **Wind Speed:** m/s **Wave Dir:** °
Barometer: 29.96 in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.430	25.428	36.225	24.137	377.35	1536.91	4.689	.151	10.07
20	25.103	25.099	36.228	24.240	367.99	1536.30	4.711	.108	20.14
30	24.417	24.411	36.303	24.505	343.11	1534.89	4.830	.141	30.20
50	22.427	22.416	36.407	25.168	280.70	1530.35	4.683	.383	50.34
75	20.786	20.771	36.403	25.622	238.35	1526.43	4.383	.265	75.52

Cruise: GULFCET 05 **Station:** 09-093
Date: 28-May-93 **Time:** 1520 **Lat:** 27 26.00 **Long:** 90 50.05
Depth: 1300 m **Wind Dir:** 63.6 ° **Wind Speed:** 8.1 m/s **Wave Dir:** 55 °
Barometer: 29.95 in. **Air Temp Dry:** 25.2 °C **Air Temp Wet:** 23 °C **Secchi Depth:** 27 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.039	25.037	35.949	24.048	385.85	1535.68	4.698	.082	10.07
20	24.873	24.869	36.293	24.359	356.61	1535.82	4.738	.084	20.14
30	24.678	24.671	36.309	24.431	350.20	1535.53	4.779	.103	30.20
50	22.307	22.297	36.264	25.093	287.82	1529.88	5.159	.176	50.34
75	20.305	20.291	36.336	25.701	230.83	1525.05	4.755	.318	75.52
100	18.552	18.534	36.398	26.206	183.65	1520.63	3.662	.192	100.69
125	16.749	16.728	36.219	26.511	155.25	1515.55	3.605	.115	125.88
150	15.076	15.052	35.971	26.705	137.32	1510.54	3.548	.079	151.06
200	13.124	13.096	35.671	26.888	120.88	1504.72	3.373	.061	201.44
250	11.539	11.507	35.419	27.003	110.69	1499.89	3.290	.060	251.83
300	10.226	10.190	35.227	27.090	102.89	1495.89	3.159	.062	302.23
400	8.485	8.442	35.011	27.209	92.56	1490.93	3.151	.067	403.07

Cruise: GULFCET 05 **Station:** 09-096
Date: 28-May-93 **Time:** 0909 **Lat:** 26 44.66 **Long:** 90 50.13
Depth: 2000 m **Wind Dir:** 71 ° **Wind Speed:** 9.6 m/s **Wave Dir:** 260°
Barometer: 29.96 in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.762	24.760	36.172	24.301	361.71	1535.25	4.890	.080	10.07
20	24.685	24.680	36.179	24.331	359.34	1535.24	4.943	.084	20.14
30	23.172	23.166	36.149	24.757	319.07	1531.63	5.311	.104	30.20
50	21.848	21.838	36.216	25.186	278.94	1528.63	5.453	.153	50.34
75	20.339	20.324	36.256	25.631	237.49	1525.06	5.077	.279	75.52
100	19.446	19.428	36.372	25.956	207.47	1523.14	4.027	.205	100.69
125	16.620	16.599	36.207	26.532	153.22	1515.15	3.340	.132	125.88
150	15.439	15.415	36.034	26.672	140.52	1511.75	3.291	.072	151.06
200	13.355	13.326	35.713	26.874	122.31	1505.53	3.267	.057	201.44
250	11.997	11.964	35.516	26.991	111.96	1501.58	3.160	.060	251.83
300	10.663	10.626	35.300	27.071	105.00	1497.53	3.166	.062	302.23
400	8.781	8.737	35.047	27.190	94.56	1492.08	3.193	.069	403.07

Cruise: GULFCET 05 **Station:** 10-097
Date: 28-May-93 **Time:** 0355 **Lat:** 27 09.87 **Long:** 90 10.03
Depth: 2000 m **Wind Dir:** ° **Wind Speed:** m/s **Wave Dir:** °
Barometer: in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.040	25.038	35.972	24.066	384.17	1535.71	4.685	.082	10.07
20	24.966	24.962	36.040	24.140	377.51	1535.77	4.724	.086	20.14
30	23.338	23.331	36.060	24.641	330.09	1531.95	4.980	.110	30.20
50	21.786	21.777	36.188	25.183	279.30	1528.44	5.085	.194	50.34
75	20.251	20.237	36.361	25.734	227.68	1524.93	4.434	.363	75.52
100	18.617	18.599	36.436	26.219	182.42	1520.86	3.499	.184	100.69
125	16.897	16.876	36.259	26.507	155.70	1516.04	3.397	.100	125.88
150	16.163	16.138	36.149	26.595	148.00	1514.11	3.339	.065	151.06
200	14.523	14.493	35.885	26.760	133.44	1509.52	3.335	.061	201.44
250	12.817	12.783	35.613	26.905	120.46	1504.46	3.271	.061	251.83
300	11.626	11.588	35.435	26.999	112.34	1501.05	3.211	.060	302.23
400	9.456	9.410	35.123	27.140	99.82	1494.65	3.122	.065	403.07
500	7.983	7.931	34.958	27.244	90.61	1490.64	3.200	.070	503.96

Cruise: GULFCET 05 **Station:** 10-100
Date: 27-May-93 **Time:** 2230 **Lat:** 27 45.70 **Long:** 90 10.40
Depth: 800 m **Wind Dir:** 99.7 ° **Wind Speed:** 7 m/s **Wave Dir:** °
Barometer: 29.96 in. **Air Temp Dry:** 25 °C **Air Temp Wet:** 23.5 °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.231	25.229	36.237	24.208	370.63	1536.45	4.736	.085	10.07
20	24.990	24.985	36.198	24.252	366.86	1536.00	4.752	.088	20.14
30	23.627	23.621	36.232	24.687	325.81	1532.87	4.964	.114	30.20
50	22.011	22.001	36.220	25.143	283.02	1529.07	5.126	.220	50.34
75	20.226	20.212	36.306	25.699	231.02	1524.80	4.315	.125	75.52
100	18.321	18.303	36.457	26.310	173.77	1520.04	3.477	.104	100.69
125	17.012	16.991	36.291	26.504	155.99	1516.42	3.640	.070	125.88
150	16.047	16.023	36.126	26.605	147.06	1513.73	3.421	.060	151.06
200	14.298	14.268	35.859	26.789	130.68	1508.77	3.182	.053	201.44
250	12.632	12.598	35.577	26.914	119.51	1503.80	3.424	.056	251.83
300	11.465	11.426	35.399	27.001	111.99	1500.45	3.324	.058	302.23
400	9.399	9.354	35.112	27.142	99.63	1494.43	3.185	.062	403.07
500	8.090	8.038	34.980	27.245	90.59	1491.08	0.000	.064	503.96

Cruise: GULFCET 05 **Station:** 10-105
Date: 27-May-93 **Time:** 1747 **Lat:** 28 16.04 **Long:** 90 10.09
Depth: 93 m **Wind Dir:** 109.4° **Wind Speed:** 5.6 m/s **Wave Dir:** °
Barometer: 29.95 in. **Air Temp Dry:** 25 °C **Air Temp Wet:** 23.5 °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.890	24.888	34.894	23.296	457.63	1534.18	5.044	.615	10.07
20	24.959	24.955	35.931	24.060	385.15	1535.64	4.877	.338	20.14
30	23.211	23.205	36.116	24.721	322.52	1531.70	4.872	.365	30.20
50	22.095	22.084	36.223	25.122	285.02	1529.29	4.909	.112	50.34
75	19.699	19.685	36.329	25.857	215.98	1523.37	3.594	.100	75.52

Cruise: GULFCET 05 **Station:** 11-106
Date: 27-May-93 **Time:** 1010 **Lat:** 28 45.07 **Long:** 89 30.12
Depth: 96 m **Wind Dir:** ° **Wind Speed:** m/s **Wave Dir:** °
Barometer: in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.818	24.816	34.665	23.145	472.04	1533.76	4.816	.347	10.07
20	24.982	24.977	36.239	24.285	363.66	1536.02	4.746	.197	20.14
30	23.547	23.540	36.189	24.678	326.63	1532.62	4.921	.189	30.20
50	21.140	21.131	36.214	25.381	260.37	1526.76	4.807	.268	50.34
75	20.342	20.328	36.451	25.779	223.43	1525.28	3.905	.117	75.52

Cruise: GULFCET 05 Station: 11-112
 Date: 27-May-93 Time: 0421 Lat: 28 06.29 Long: 89 29.98
 Depth: 1075 m Wind Dir: ° Wind Speed: m/s Wave Dir: °
 Barometer: in. Air Temp Dry: °C Air Temp Wet: °C Secchi Depth: m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.480	25.478	36.247	24.139	377.23	1537.05	4.587	.121	10.07
20	25.427	25.422	36.302	24.196	372.16	1537.15	4.603	.119	20.14
30	23.390	23.384	36.296	24.805	314.52	1532.34	4.878	.142	30.20
50	20.986	20.976	36.156	25.380	260.50	1526.28	5.012	.207	50.34
75	20.424	20.410	36.691	25.940	208.18	1525.77	3.879	.268	75.52
100	18.271	18.254	36.484	26.342	170.66	1519.92	3.731	.121	100.69
125	17.184	17.163	36.331	26.493	157.08	1516.98	3.798	.079	125.88
150	16.399	16.375	36.199	26.578	149.63	1514.89	3.783	.058	151.06
200	14.665	14.634	35.918	26.755	133.97	1510.01	3.679	.052	201.44
250	13.295	13.260	35.686	26.865	124.45	1506.14	3.510	.055	251.83
300	11.800	11.761	35.455	26.981	114.09	1501.67	3.266	.056	302.23
400	9.874	9.827	35.178	27.113	102.70	1496.23	3.168	.062	403.07

Cruise: GULFCET 05 Station: 11-115
 Date: 26-May-93 Time: 2216 Lat: 27 26.97 Long: 89 30.03
 Depth: 2000 m Wind Dir: 80 ° Wind Speed: 6.7 m/s Wave Dir: °
 Barometer: 29.97 in. Air Temp Dry: 25.5 °C Air Temp Wet: 23 °C Secchi Depth: m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.711	25.709	36.338	24.136	377.53	1537.69	4.703	.093	10.07
20	25.711	25.706	36.339	24.136	377.90	1537.86	4.712	.091	20.14
30	24.368	24.362	36.413	24.603	333.75	1534.89	4.804	.121	30.20
50	22.015	22.005	36.231	25.150	282.36	1529.09	5.030	.161	50.34
75	20.251	20.237	36.340	25.718	229.19	1524.91	4.526	.301	75.52
100	18.775	18.757	36.431	26.174	186.65	1521.31	3.405	.192	100.69
125	16.959	16.938	36.254	26.488	157.46	1516.22	3.346	.092	125.88
150	16.084	16.060	36.145	26.610	146.56	1513.87	3.674	.067	151.06
200	14.282	14.252	35.853	26.787	130.82	1508.71	3.355	.057	201.44
250	12.581	12.547	35.579	26.926	118.41	1503.63	3.436	.054	251.83
300	11.496	11.458	35.420	27.011	111.07	1500.58	3.108	.059	302.23
400	9.385	9.339	35.122	27.151	98.70	1494.39	3.188	.065	403.07

Cruise: GULFCET 05 Station: 12-116
 Date: 26-May-93 Time: 1748 Lat: 27 26.09 Long: 88 49.94
 Depth: 2000 m Wind Dir: 93.8 ° Wind Speed: 7.3 m/s Wave Dir: 85 °
 Barometer: 29.93 in. Air Temp Dry: 25 °C Air Temp Wet: 22.5 °C Secchi Depth: 27 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.323	25.321	36.114	24.086	382.22	1536.53	4.732	.121	10.07
20	25.113	25.109	36.149	24.177	373.95	1536.24	4.706	.118	20.14
30	24.877	24.871	36.192	24.282	364.41	1535.89	4.810	.122	30.20
50	23.936	23.926	36.245	24.605	334.34	1533.99	4.917	.188	50.34
75	21.248	21.233	36.508	25.576	242.82	1527.79	4.272	.362	75.52
100	18.816	18.798	36.395	26.136	190.26	1521.38	3.714	.231	100.69
125	17.286	17.265	36.249	26.406	165.36	1517.19	3.612	.118	125.88
150	15.331	15.308	35.990	26.663	141.39	1511.36	3.519	.077	151.06
200	12.795	12.767	35.611	26.909	118.81	1503.55	3.430	.061	201.44
250	11.110	11.079	35.349	27.028	108.09	1498.32	3.314	.062	251.83
300	9.560	9.526	35.166	27.157	96.23	1493.42	3.347	.059	302.23
400	8.288	8.246	34.987	27.220	91.33	1490.17	3.211	.063	403.07

Cruise: GULFCET 05 **Station:** 12-117
Date: 26-May-93 **Time:** 1412 **Lat:** 27 49.97 **Long:** 88 50.03
Depth: 1575 m **Wind Dir:** 100 ° **Wind Speed:** 7.4 m/s **Wave Dir:** 110°
Barometer: 29.95 in. **Air Temp Dry:** 25 °C **Air Temp Wet:** 21.5 °C **Secchi Depth:** 32 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.932	25.929	36.394	24.109	380.09	1538.27	4.640	.078	10.07
20	24.870	24.866	36.233	24.315	360.80	1535.75	4.806	.096	20.14
30	24.689	24.682	36.240	24.376	355.46	1535.49	4.819	.103	30.20
50	22.226	22.216	36.284	25.131	284.21	1529.70	5.121	.204	50.34
75	20.615	20.601	36.410	25.674	233.46	1525.98	4.695	.310	75.52
100	18.211	18.193	36.411	26.302	174.51	1519.67	3.758	.150	100.69
125	16.172	16.152	36.153	26.596	147.12	1513.73	3.696	.083	125.88
150	15.064	15.041	35.980	26.715	136.39	1510.51	3.524	.064	151.06
200	13.372	13.344	35.701	26.861	123.51	1505.57	3.491	.055	201.44
250	11.780	11.748	35.455	26.985	112.47	1500.77	3.320	.055	251.83
300	10.554	10.518	35.270	27.066	105.35	1497.11	3.227	.057	302.23
400	9.024	8.980	35.076	27.174	96.26	1493.01	3.055	.060	403.07

Cruise: GULFCET 05 **Station:** 12-119
Date: 26-May-93 **Time:** 0749 **Lat:** 28 26.03 **Long:** 88 49.99
Depth: 1300 m **Wind Dir:** 95 ° **Wind Speed:** 5.1 m/s **Wave Dir:** 310°
Barometer: 29.96 in. **Air Temp Dry:** 24.9 °C **Air Temp Wet:** 21 °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.482	25.479	36.154	24.068	383.99	1536.95	4.680	.106	10.07
20	25.480	25.475	36.154	24.068	384.39	1537.12	4.687	.109	20.14
30	25.473	25.466	36.152	24.069	384.70	1537.27	4.640	.116	30.20
50	23.802	23.791	36.252	24.650	330.03	1533.66	4.792	.169	50.34
75	22.656	22.640	36.537	25.201	278.55	1531.50	4.193	.353	75.52
100	20.935	20.916	36.531	25.679	233.93	1527.40	3.929	.242	100.69
125	18.368	18.346	36.405	26.258	179.57	1520.53	3.729	.117	125.88
150	15.964	15.940	36.120	26.619	145.68	1513.47	3.743	.073	151.06
200	13.279	13.251	35.692	26.873	122.33	1505.26	3.497	.055	201.44
250	11.733	11.701	35.454	26.993	111.68	1500.60	3.395	.056	251.83
300	9.885	9.850	35.183	27.115	100.36	1494.61	3.402	.058	302.23
400	7.829	7.788	34.966	27.273	85.93	1488.41	3.344	.061	403.07

Cruise: GULFCET 05 **Station:** 12-125
Date: 26-May-93 **Time:** 0153 **Lat:** 29 06.49 **Long:** 88 50.04
Depth: 90 m **Wind Dir:** ° **Wind Speed:** m/s **Wave Dir:** °
Barometer: in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	24.622	24.620	34.794	23.301	457.11	1533.42	4.842	.492	10.07
20	24.401	24.397	36.271	24.486	344.56	1534.65	4.765	.211	20.14
30	23.555	23.549	36.234	24.709	323.65	1532.69	4.866	.247	30.20
50	21.861	21.851	36.240	25.201	277.57	1528.69	4.622	.248	50.34
75	20.440	20.426	36.297	25.635	237.13	1525.38	3.681	.255	75.52

Cruise: GULFCET 05 **Station:** 13-126
Date: 25-May-93 **Time:** 2159 **Lat:** 29 16.56 **Long:** 88 10.08
Depth: 94 m **Wind Dir:** 127 ° **Wind Speed:** 6.7 m/s **Wave Dir:** °
Barometer: 29.99 in. **Air Temp Dry:** 23.5 °C **Air Temp Wet:** 22 °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	23.990	23.988	34.361	23.162	470.37	1531.40	4.960	.227	10.07
20	22.825	22.821	35.034	24.012	389.68	1529.36	5.161	.232	20.14
30	21.310	21.304	35.084	24.475	345.85	1525.62	5.341	.231	30.20
50	20.313	20.304	35.801	25.291	268.88	1524.06	5.114	.262	50.34
75	19.296	19.282	36.117	25.800	221.37	1522.01	4.456	.212	75.52

Cruise: GULFCET 05 **Station:** 13-133
Date: 25-May-93 **Time:** 1624 **Lat:** 28 46.16 **Long:** 88 09.97
Depth: 1850 m **Wind Dir:** 157.4° **Wind Speed:** 6.7 m/s **Wave Dir:** 150°
Barometer: 29.94 in. **Air Temp Dry:** 26 °C **Air Temp Wet:** 23.5 °C **Secchi Depth:** 25 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.275	25.273	35.866	23.913	398.72	1536.15	4.837	.073	10.07
20	25.044	25.039	35.861	23.981	392.70	1535.76	4.789	.084	20.14
30	23.528	23.522	35.850	24.426	350.56	1532.20	5.019	.117	30.20
50	22.461	22.450	36.045	24.883	307.83	1530.04	5.104	.150	50.34
75	21.236	21.222	36.147	25.304	268.63	1527.36	4.957	.349	75.52
100	20.136	20.118	36.249	25.680	233.76	1524.91	4.551	.172	100.69
125	18.745	18.723	36.436	26.186	186.45	1521.65	3.334	.114	125.88
150	17.576	17.551	36.330	26.397	167.08	1518.56	3.197	.087	151.06
200	14.826	14.796	35.936	26.733	136.10	1510.54	3.662	.049	201.44
250	13.312	13.277	35.723	26.890	122.12	1506.23	3.402	.055	251.83
300	12.133	12.093	35.505	26.957	116.59	1502.87	3.332	.058	302.23
400	10.116	10.069	35.206	27.093	104.76	1497.13	3.088	.061	403.07

Cruise: GULFCET 05 **Station:** 13-134
Date: 25-May-93 **Time:** 1430 **Lat:** 28 37.00 **Long:** 88 10.23
Depth: 2000 m **Wind Dir:** 154.9° **Wind Speed:** 6.1 m/s **Wave Dir:** 160°
Barometer: 29.95 in. **Air Temp Dry:** 26 °C **Air Temp Wet:** 24 °C **Secchi Depth:** 26 m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.299	25.297	35.795	23.853	404.51	1536.13	4.688	.075	10.07
20	25.276	25.272	35.810	23.871	403.14	1536.26	4.674	.084	20.14
30	23.478	23.471	35.800	24.403	352.75	1532.02	4.951	.108	30.20
50	22.218	22.208	35.993	24.913	304.98	1529.35	5.015	.150	50.34
75	21.458	21.443	36.129	25.229	275.77	1527.93	5.046	.226	75.52
100	20.532	20.513	36.215	25.548	246.31	1525.96	4.700	.199	100.69
125	19.186	19.164	36.393	26.039	200.38	1522.85	3.500	.114	125.88
150	17.634	17.608	36.337	26.388	167.94	1518.74	3.110	.086	151.06
200	15.310	15.279	36.013	26.685	140.81	1512.15	3.592	.052	201.44
250	13.078	13.043	35.646	26.879	123.09	1505.37	3.383	.054	251.83
300	11.765	11.725	35.445	26.980	114.13	1501.54	3.238	.056	302.23
400	9.957	9.910	35.183	27.103	103.73	1496.54	3.081	.062	403.07

Cruise: GULFCET 05 **Station:** 14-135
Date: 25-May-93 **Time:** 0857 **Lat:** 28 30.98 **Long:** 87 29.88
Depth: 2000 m **Wind Dir:** 150 ° **Wind Speed:** 10 m/s **Wave Dir:** 180°
Barometer: 29.95 in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** 30 m

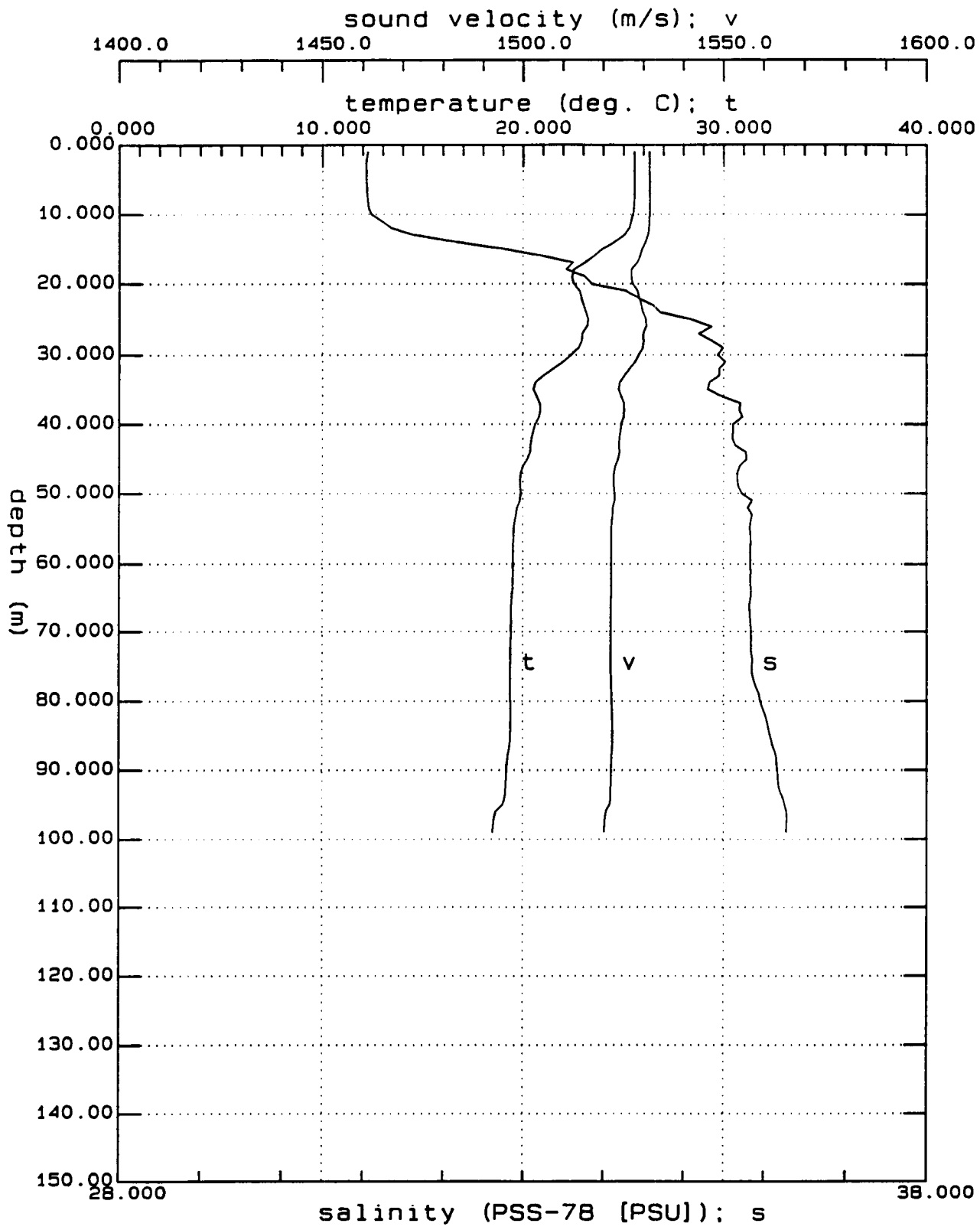
Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	26.945	26.943	36.345	23.751	414.25	1540.55	4.487	.071	10.07
20	26.943	26.938	36.344	23.751	414.66	1540.71	4.480	.071	20.14
30	26.829	26.822	36.319	23.768	413.39	1540.60	4.471	.072	30.20
50	23.626	23.615	35.988	24.502	344.17	1532.93	4.932	.105	50.34
75	22.058	22.043	35.967	24.938	303.52	1529.33	5.024	.178	75.52
100	21.415	21.395	36.140	25.250	274.77	1528.25	5.047	.194	100.69
125	20.416	20.392	36.298	25.642	238.29	1526.15	4.340	.150	125.88
150	19.044	19.017	36.367	26.056	199.66	1522.84	3.595	.103	151.06
200	16.402	16.369	36.224	26.597	149.44	1515.76	3.894	.049	201.44
250	14.697	14.659	35.912	26.743	136.62	1510.94	3.667	.051	251.83
300	13.286	13.243	35.679	26.861	126.18	1506.93	3.494	.056	302.23
400	11.226	11.175	35.376	27.028	111.75	1501.26	3.025	.062	403.07

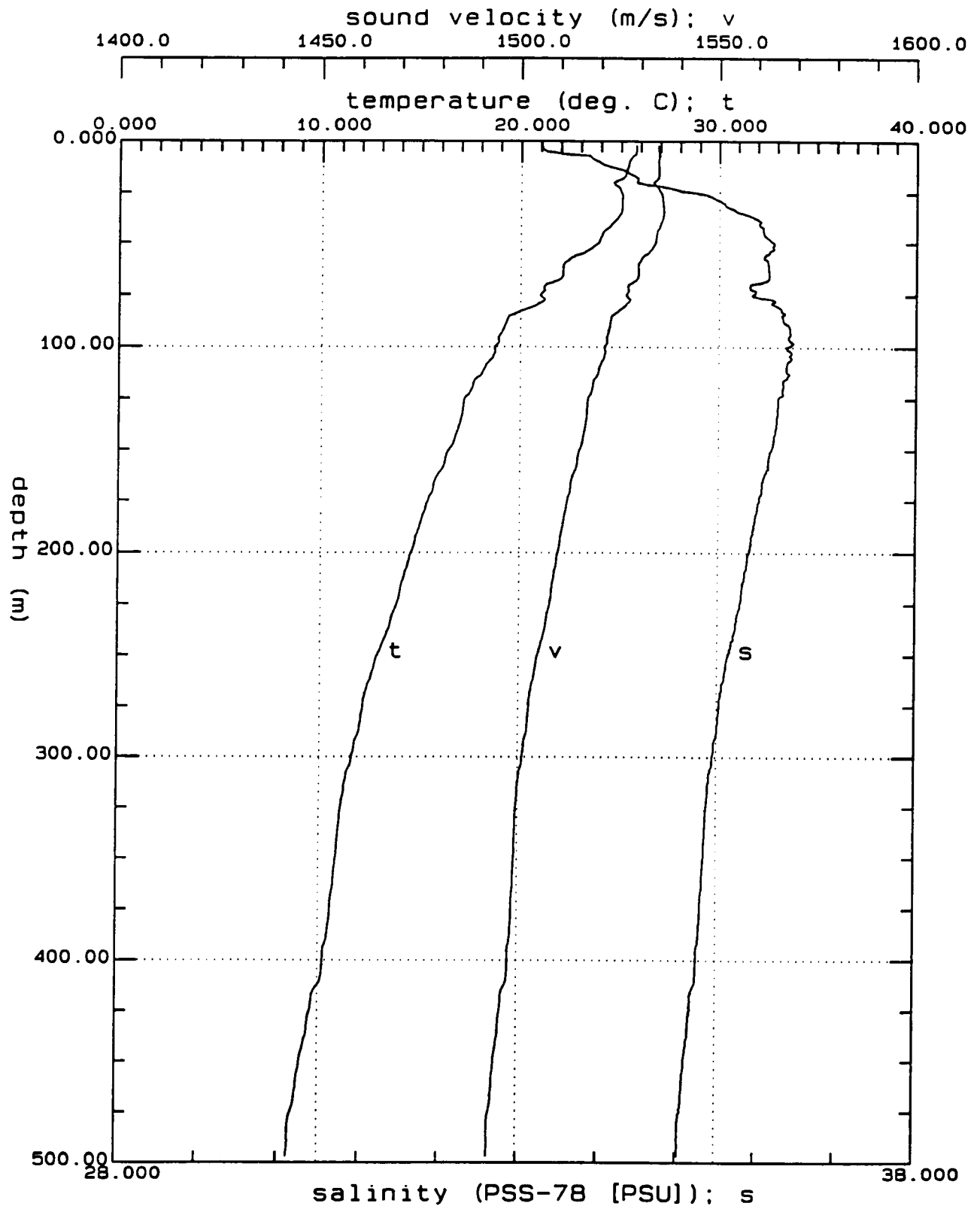
Cruise: GULFCET 05 **Station:** 14-136
Date: 25-May-93 **Time:** 0558 **Lat:** 28 45.77 **Long:** 87 30.00
Depth: 1600 m **Wind Dir:** 148 ° **Wind Speed:** 8.4 m/s **Wave Dir:** 180°
Barometer: 29.92 in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	25.438	25.436	36.136	24.067	384.02	1536.83	4.648	.070	10.07
20	25.441	25.436	36.144	24.072	383.97	1537.02	4.640	.068	20.14
30	25.379	25.372	36.164	24.107	381.06	1537.06	4.636	.073	30.20
50	21.281	21.271	35.781	25.013	295.38	1526.65	5.010	.156	50.34
75	20.183	20.169	35.978	25.460	253.70	1524.32	4.904	.326	75.52
100	18.868	18.850	36.089	25.889	213.73	1521.19	4.489	.188	100.69
125	18.250	18.228	36.147	26.089	195.49	1519.90	4.234	.095	125.88
150	17.779	17.753	36.168	26.223	183.61	1518.97	4.142	.095	151.06
200	15.825	15.793	36.090	26.627	146.43	1513.84	3.523	.058	201.44
250	13.736	13.700	35.768	26.837	127.32	1507.68	3.476	.056	251.83
300	12.007	11.967	35.499	26.976	114.68	1502.43	3.394	.055	302.23
400	10.195	10.147	35.225	27.095	104.68	1497.44	3.369	.062	403.07

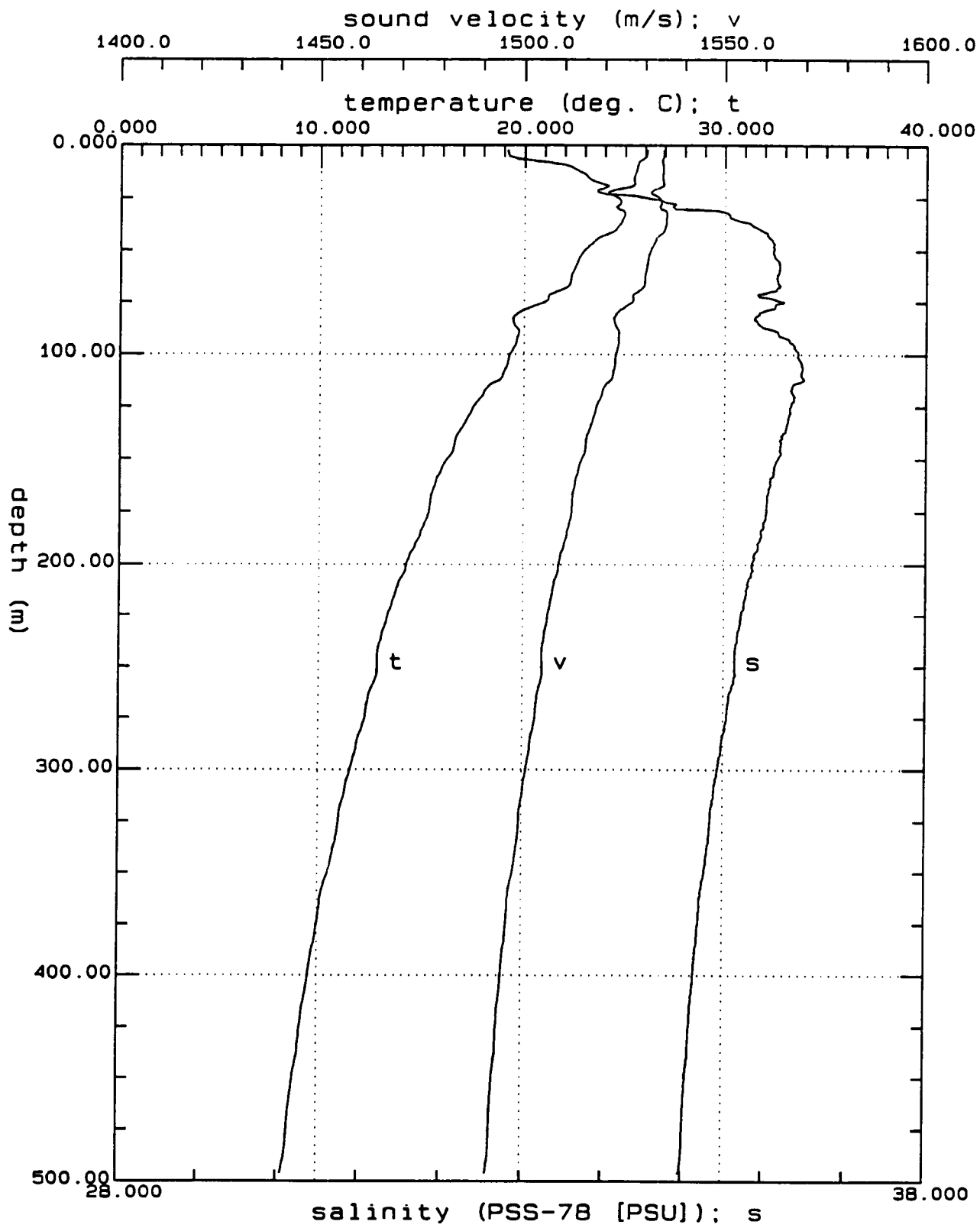
Cruise: GULFCET 05 **Station:** 14-143
Date: 24-May-93 **Time:** 2339 **Lat:** 29 27.00 **Long:** 87 30.15
Depth: m **Wind Dir:** ° **Wind Speed:** m/s **Wave Dir:** °
Barometer: in. **Air Temp Dry:** °C **Air Temp Wet:** °C **Secchi Depth:** m

Depth	Temp	Pot. Temp.	Salinity	Density	SVA	Sound V	Oxy.	Fluor.	Pressure
10	23.644	23.642	35.457	24.094	381.44	1531.73	5.233	.109	10.07
20	23.560	23.556	35.665	24.277	364.45	1531.91	5.144	.118	20.14
30	21.016	21.010	35.468	24.847	310.40	1525.26	5.425	.153	30.20
50	20.705	20.695	36.168	25.465	252.37	1525.53	5.101	.744	50.34
75	18.961	18.948	36.098	25.872	214.49	1521.04	0.000	.403	75.52

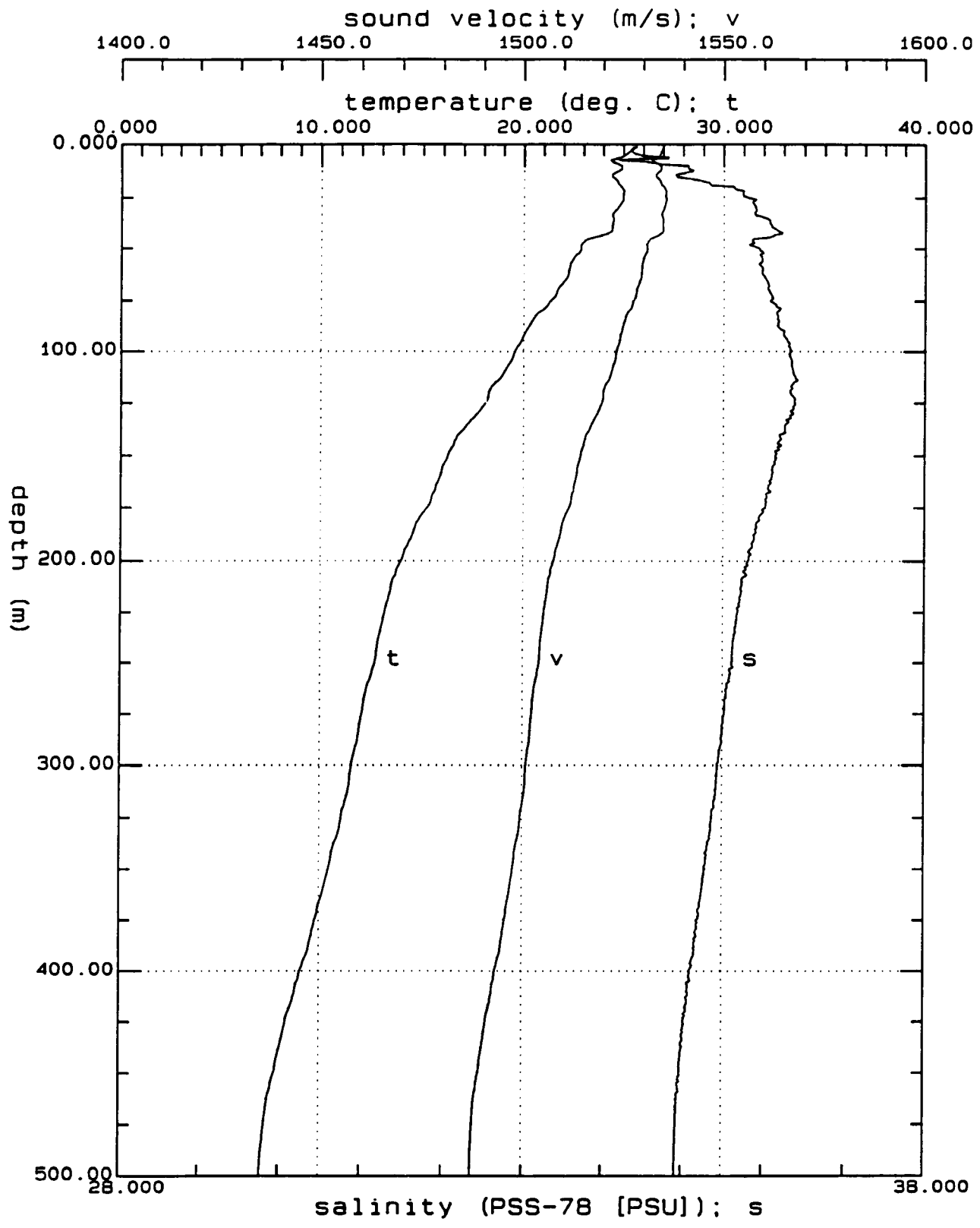




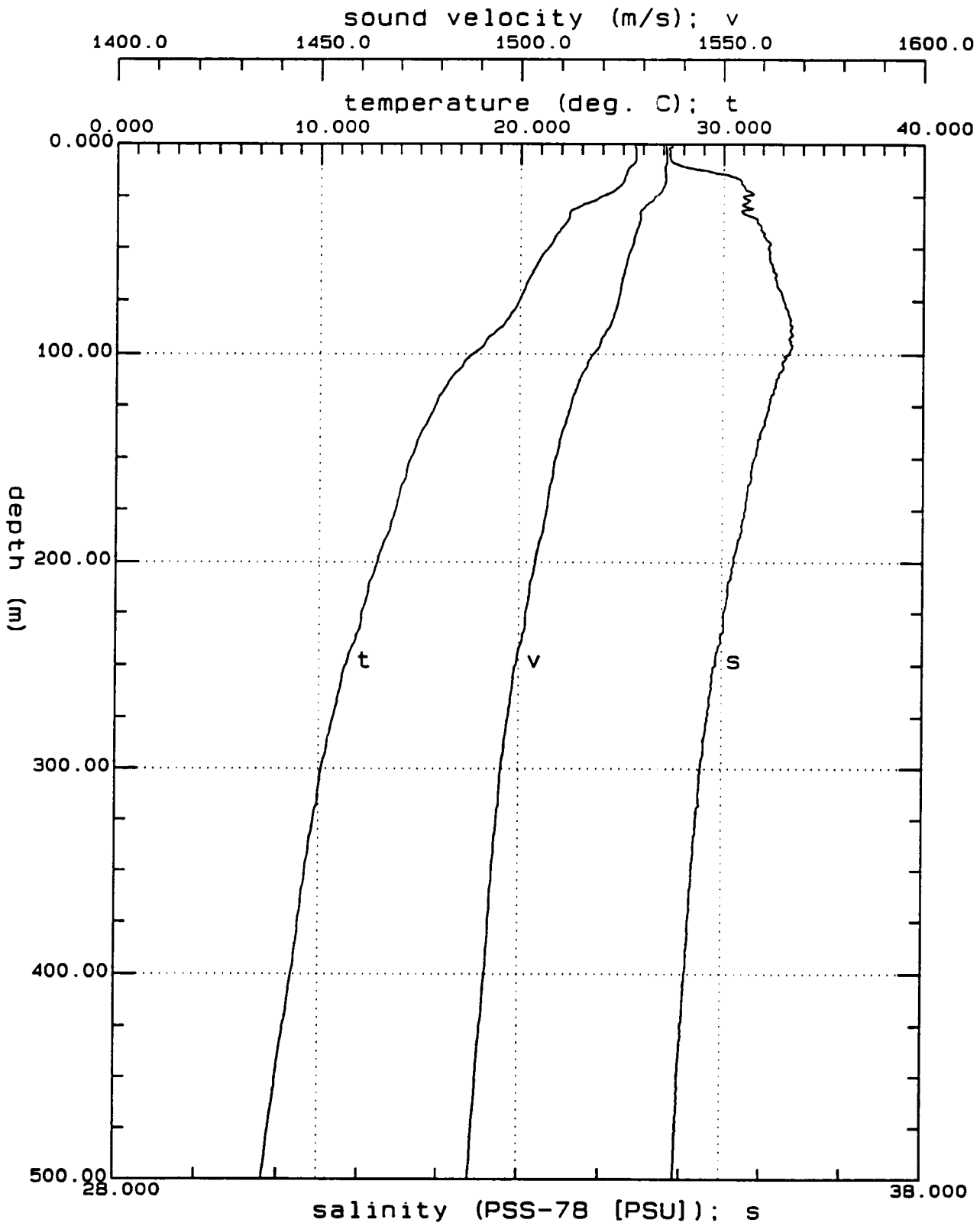
03-026.CNV: Gulfcet Cruise 05



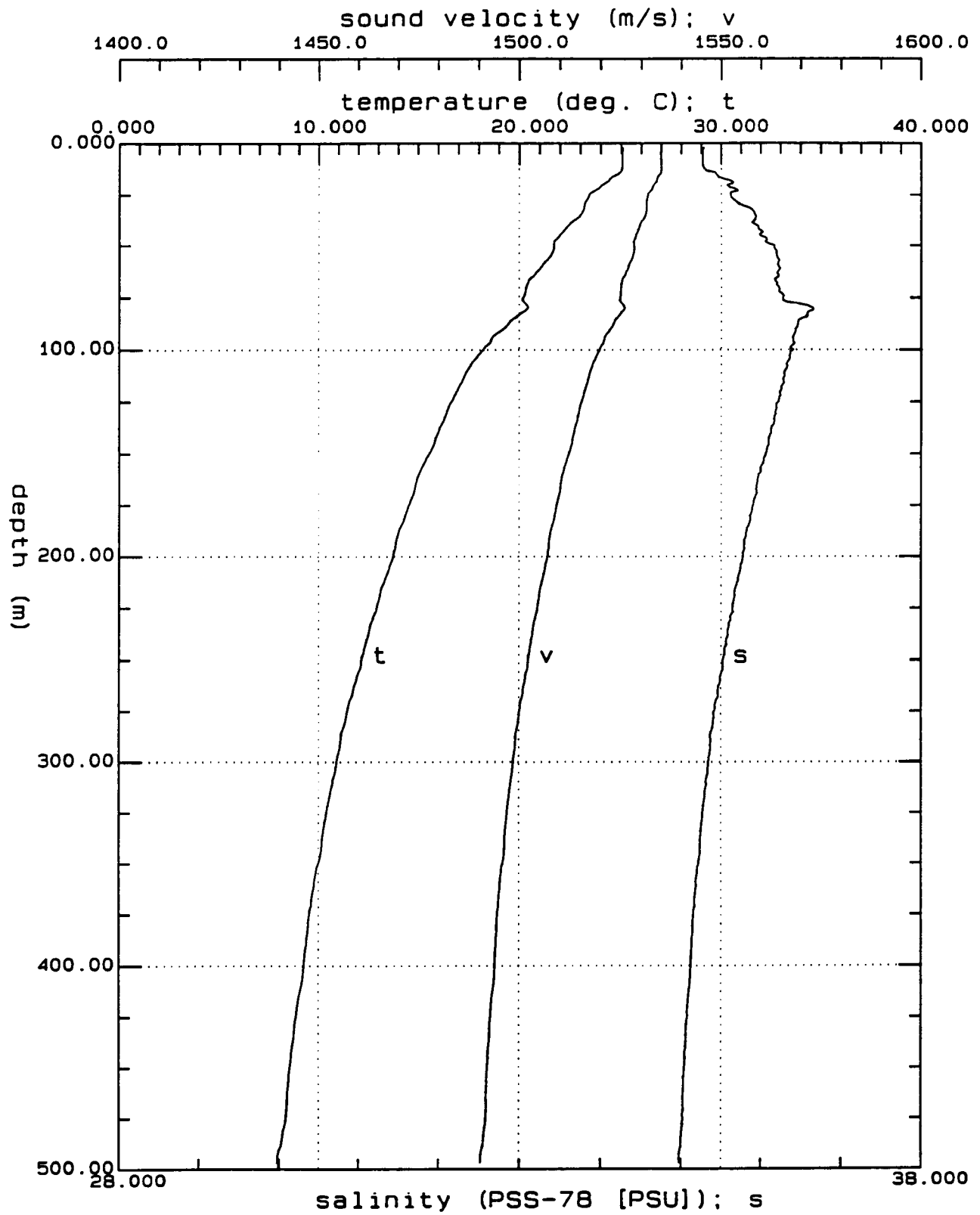
03-029.CNV: Gulfcet Cruise 05



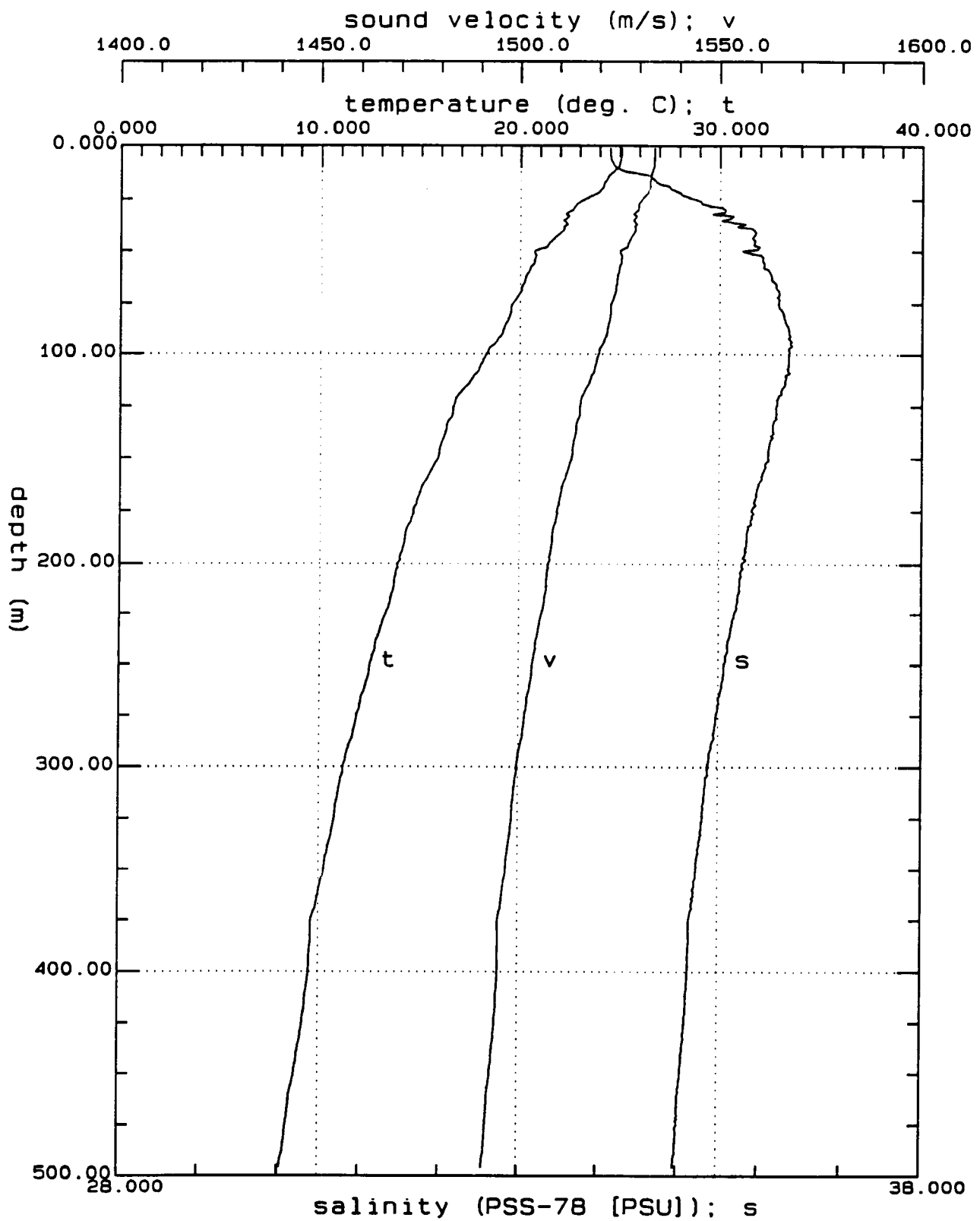
03-030.CNV: Gulfcet Cruise 05



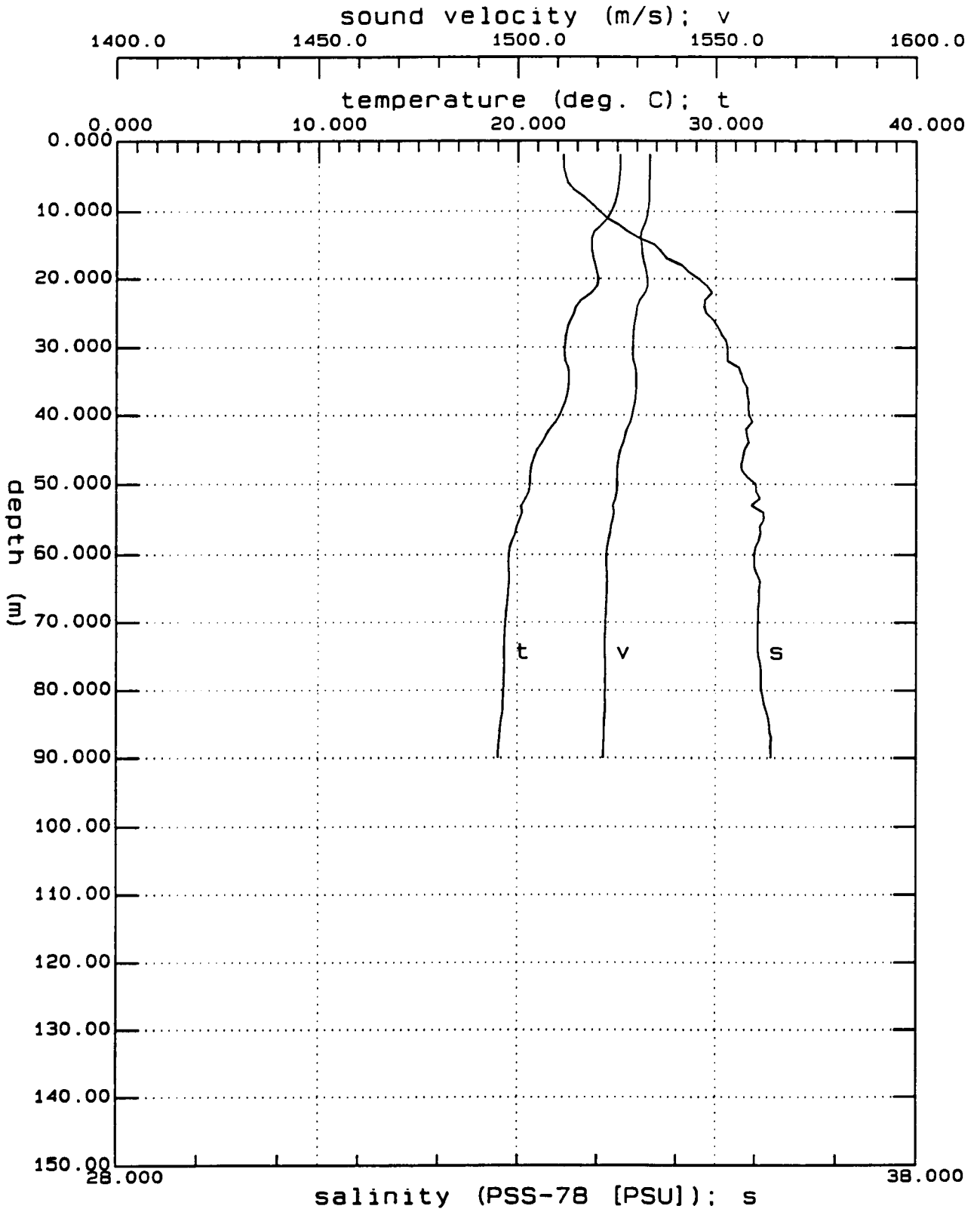
04-031.CNV: Gulfcet Cruise 05



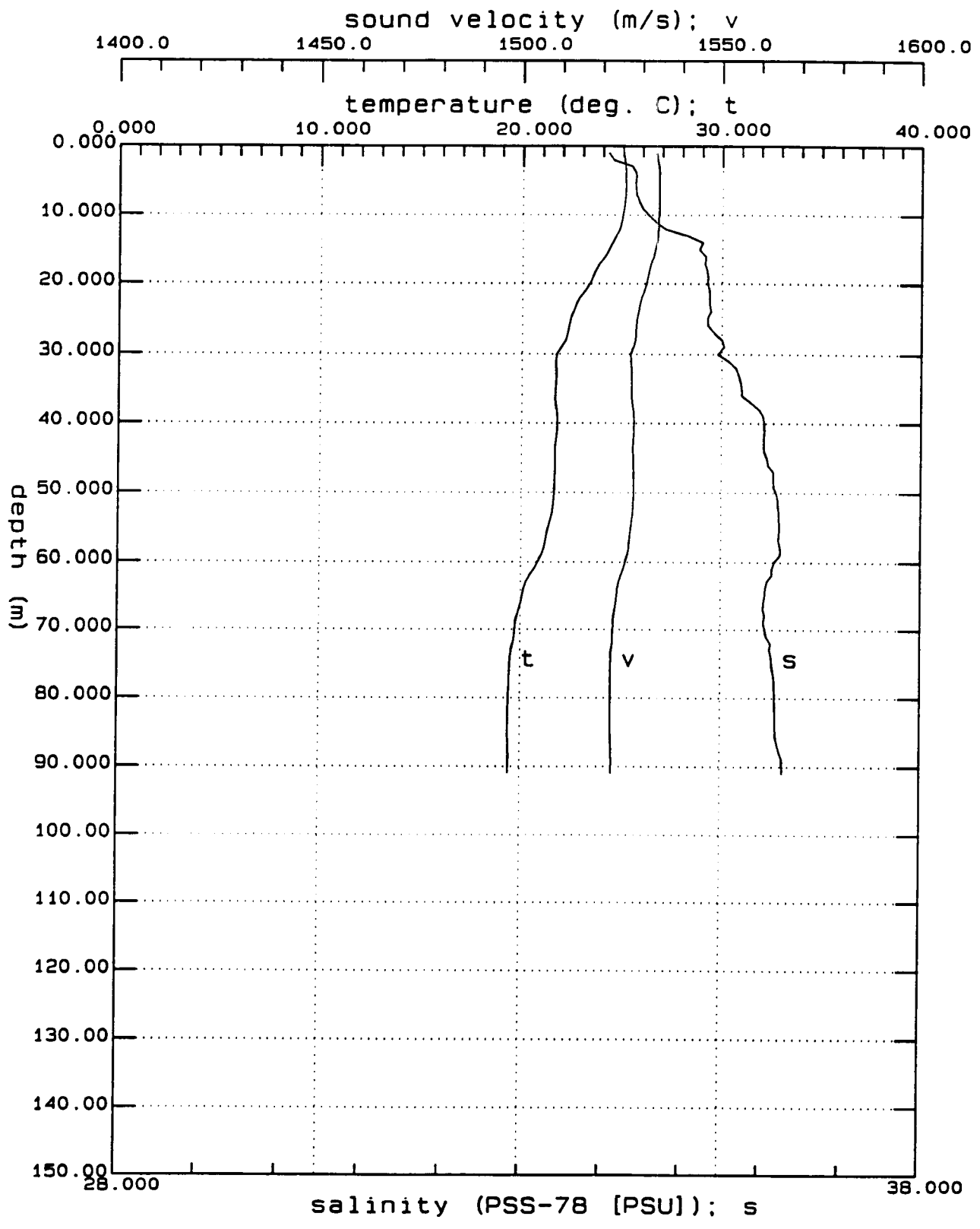
04-033.CNV: Gulfcet Cruise 05



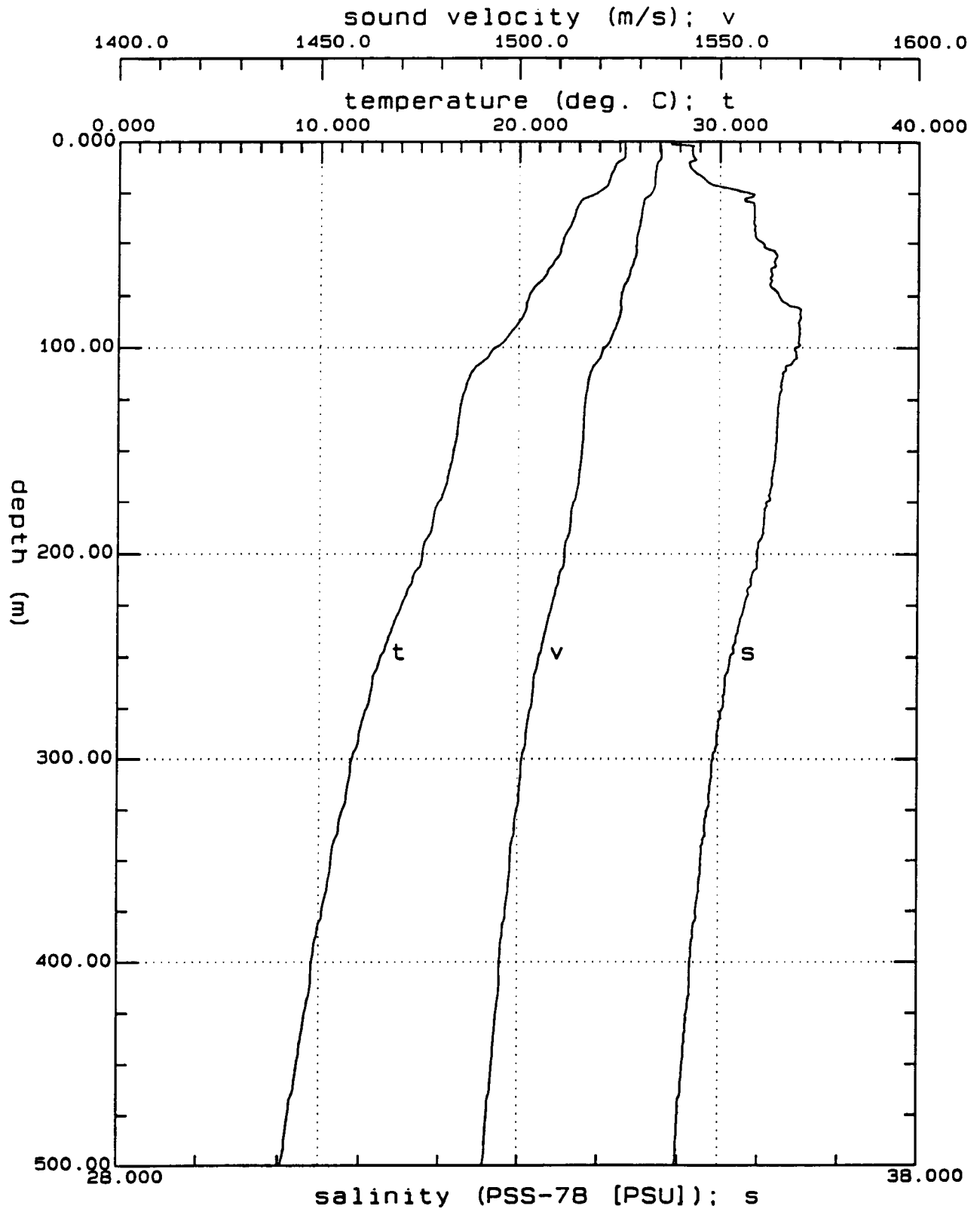
04-036.CNV: Gulfcet Cruise 05



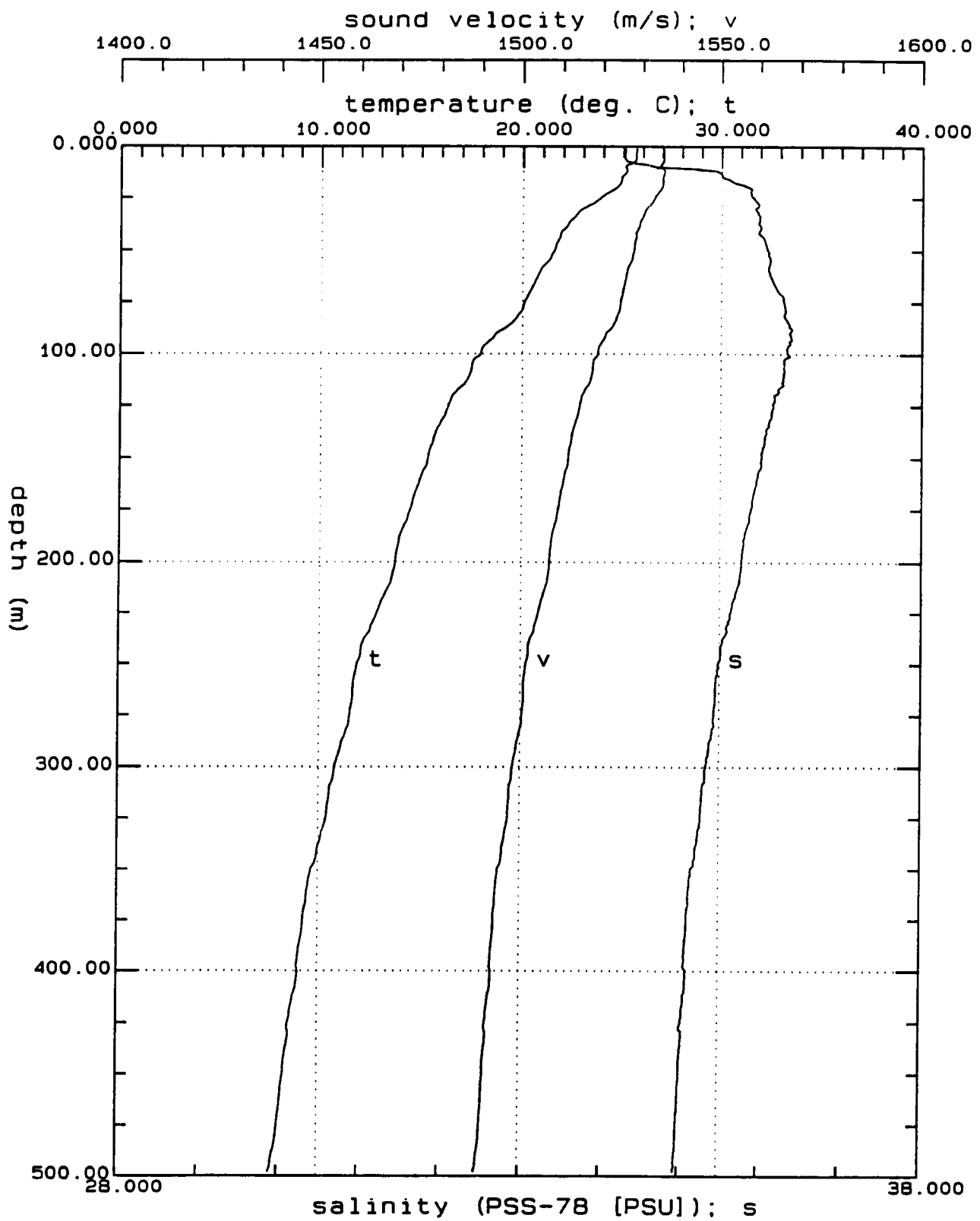
04-042.CNV: Gulfcet Cruise 05



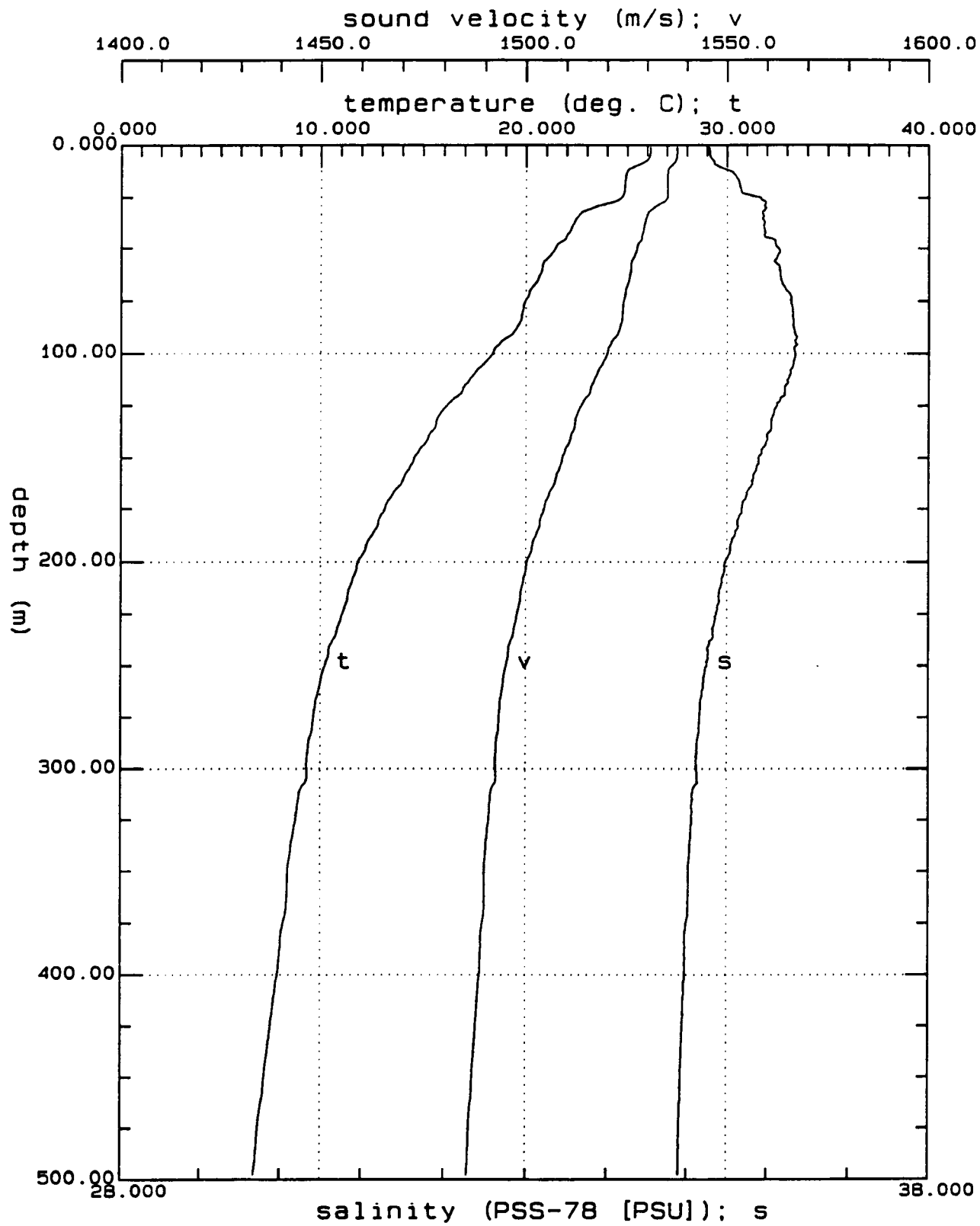
05-043.CNV: Gulfcet Cruise 05



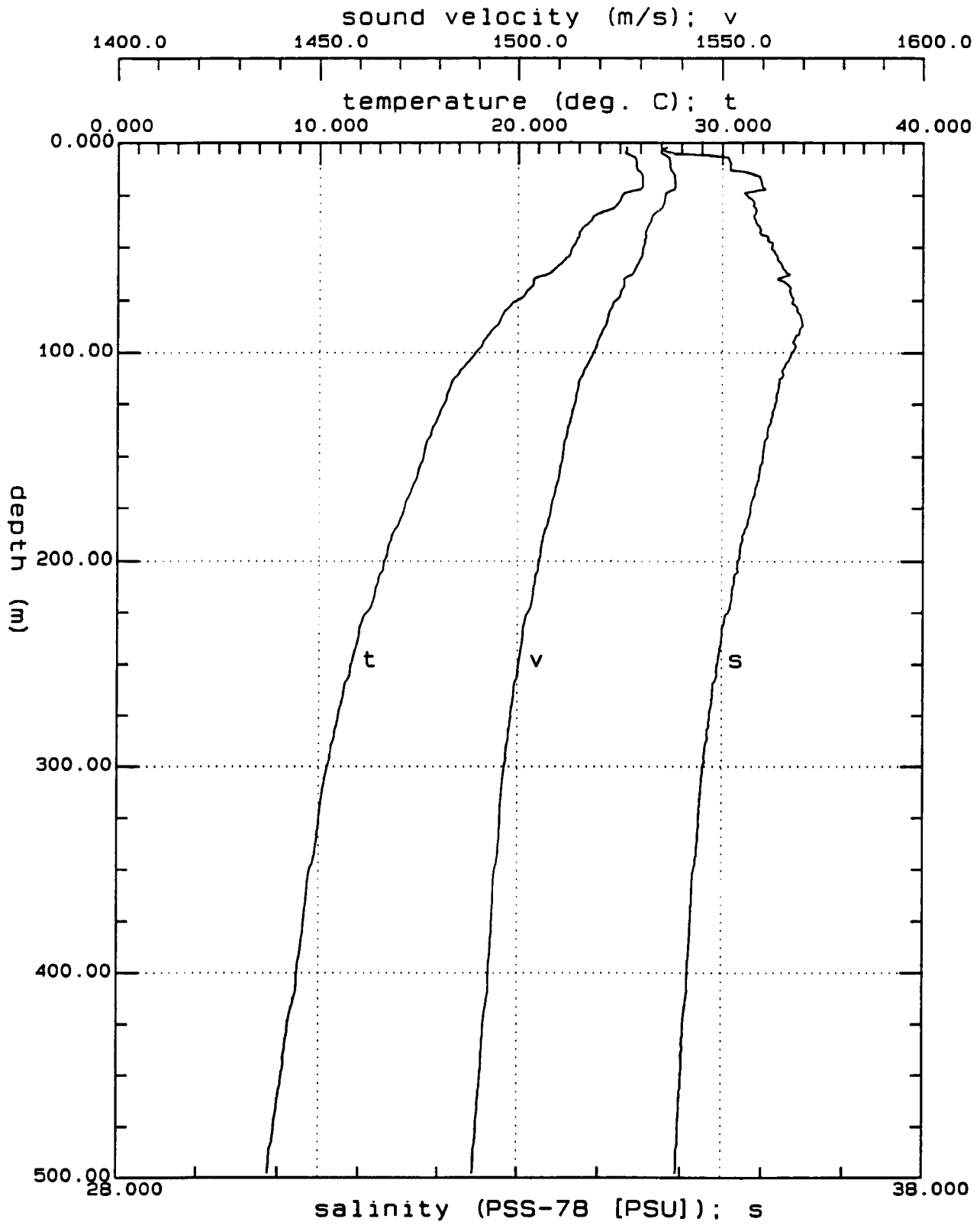
05-047.CNV: Gulfcet Cruise 05



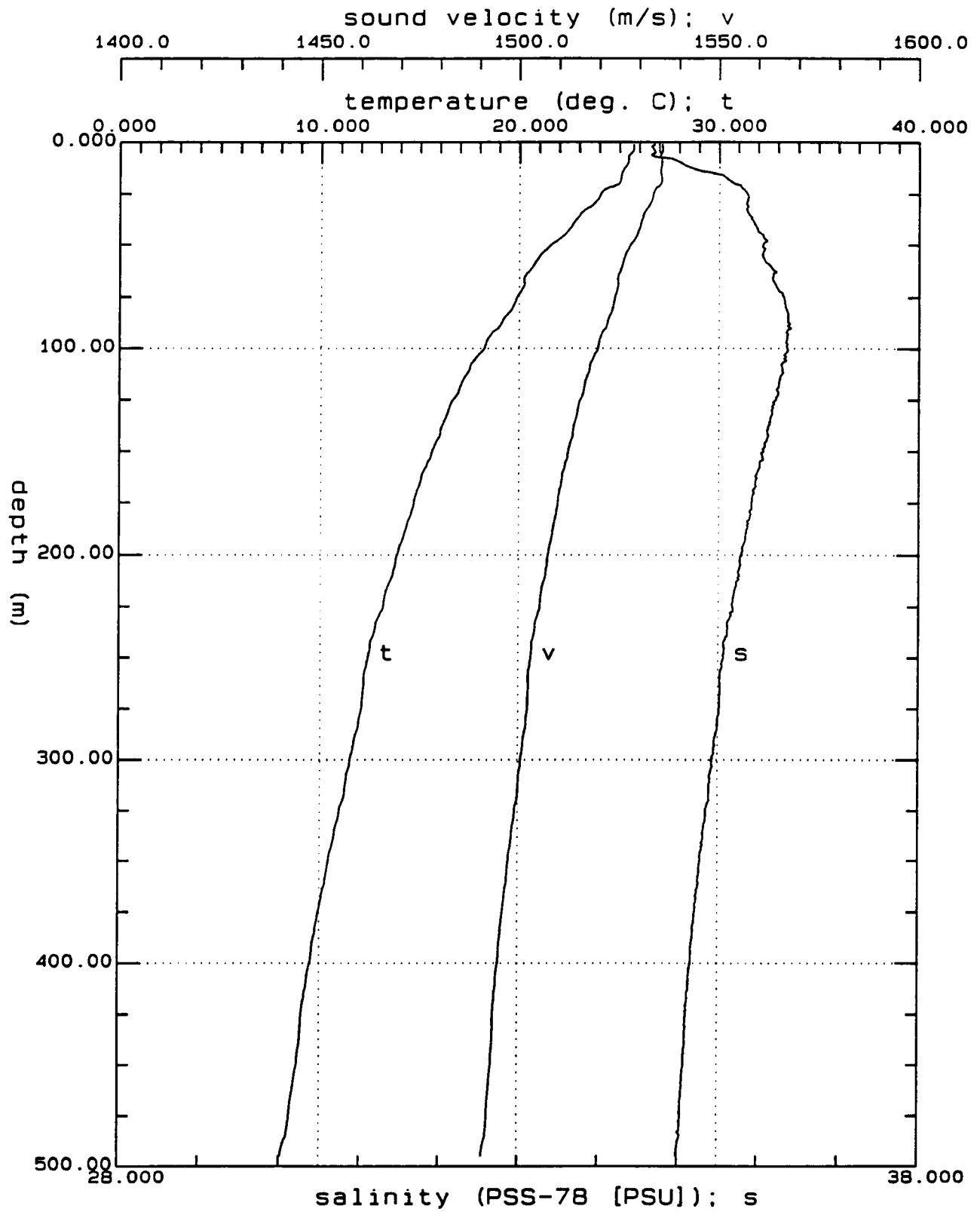
05-050.CNV: Gulfcet Cruise 05



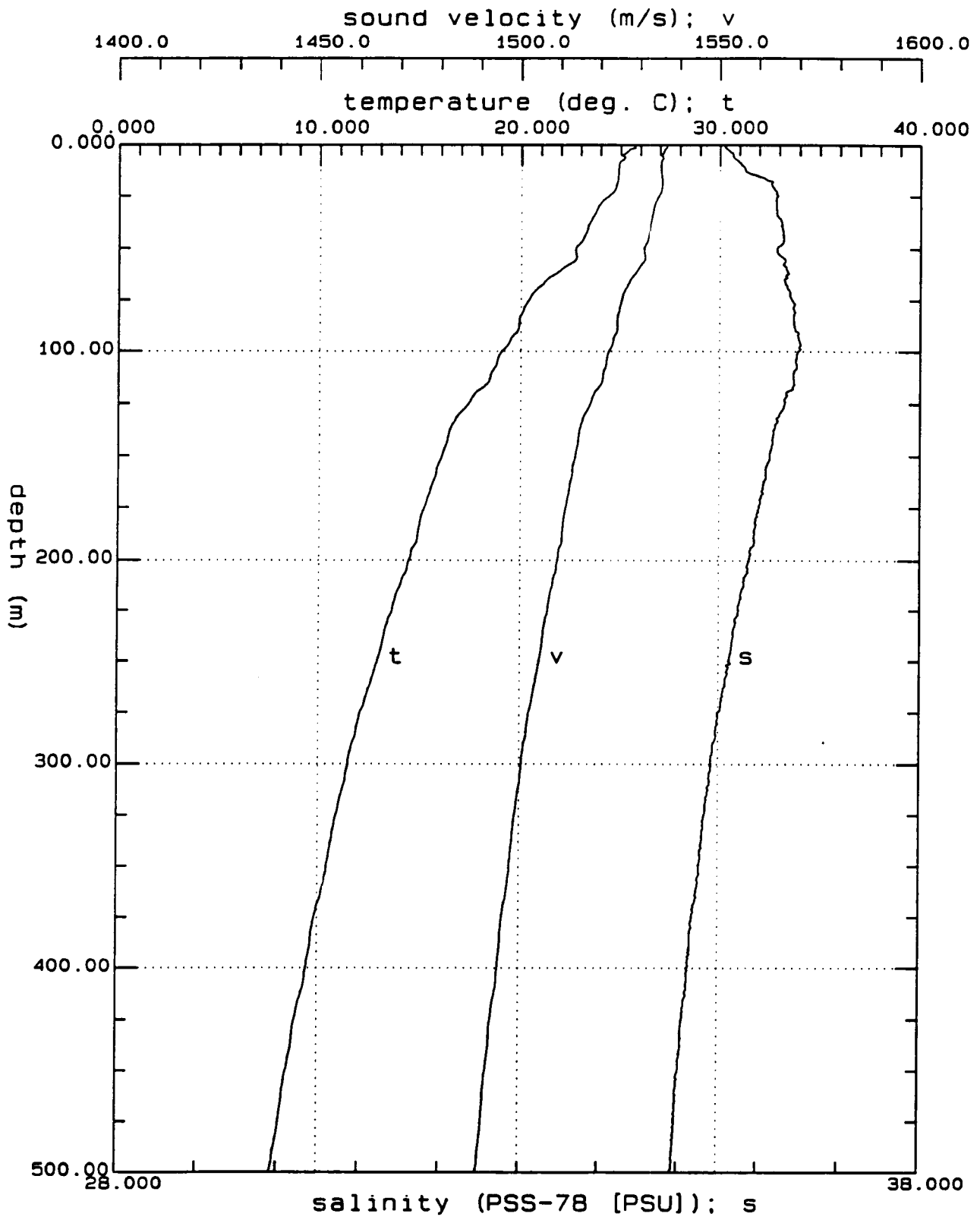
05-053.CNV: Gulfcet Cruise 05



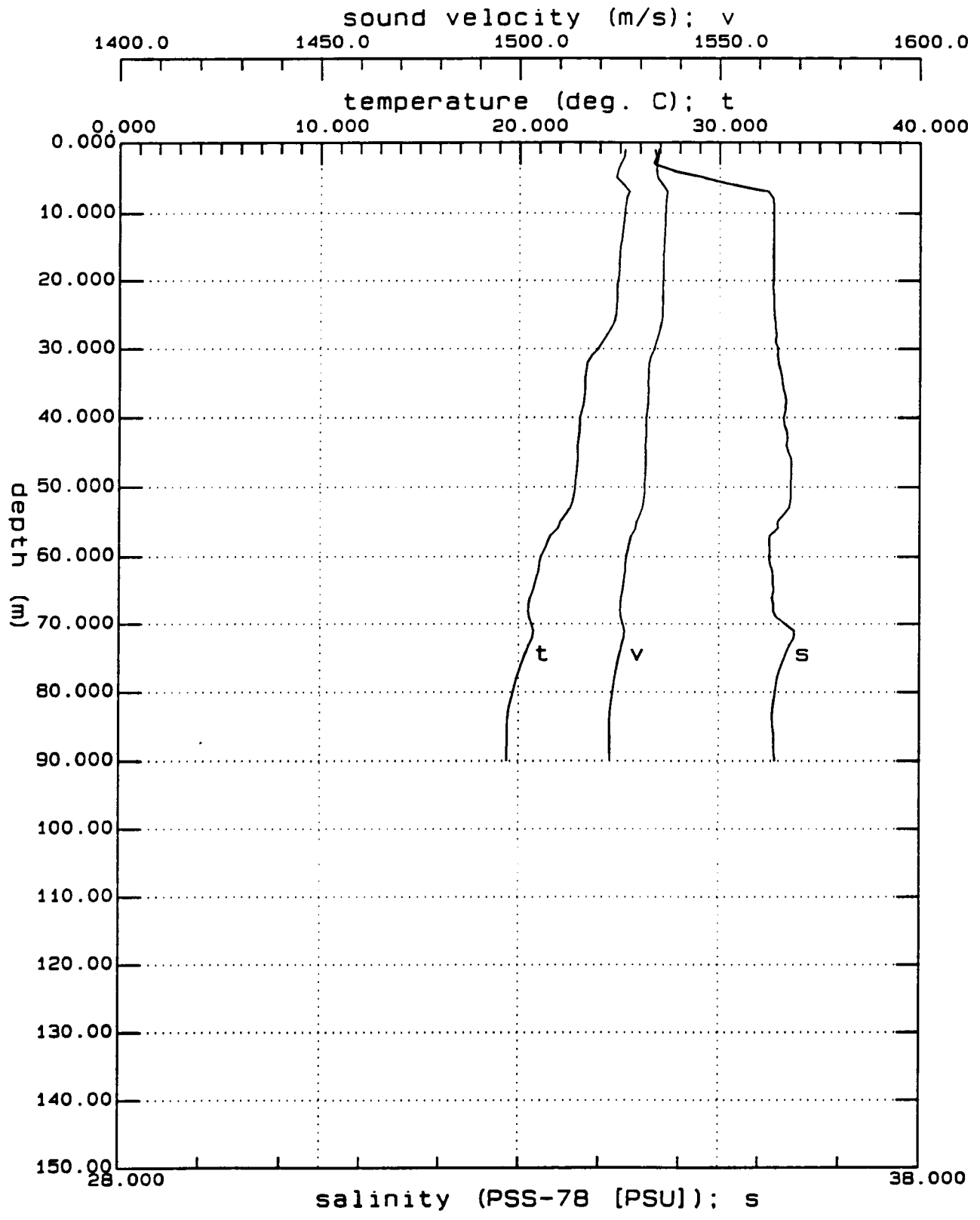
06-054.CNV: Gulfcet Cruise 05



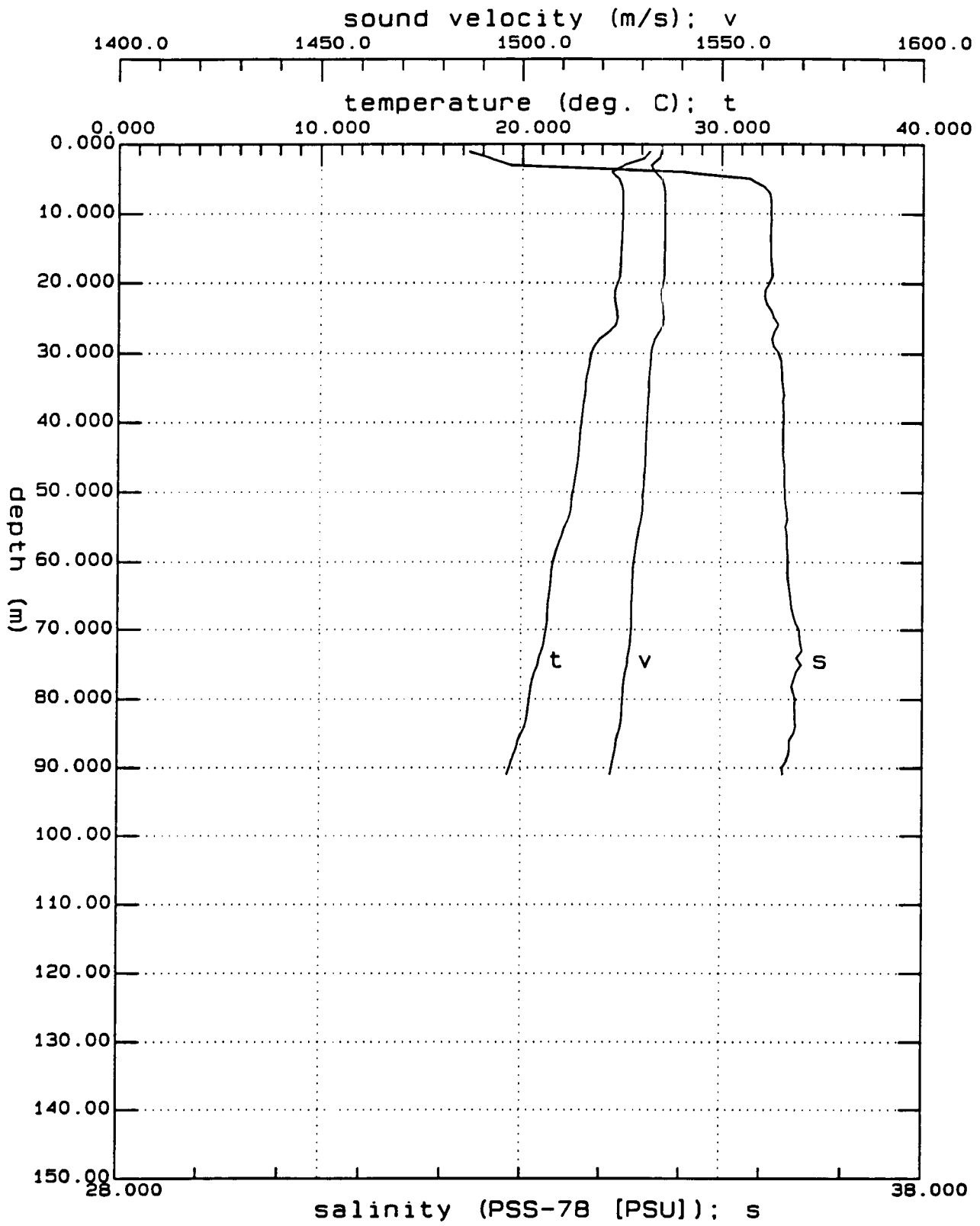
06-055.CNV: Gulfcet Cruise 05



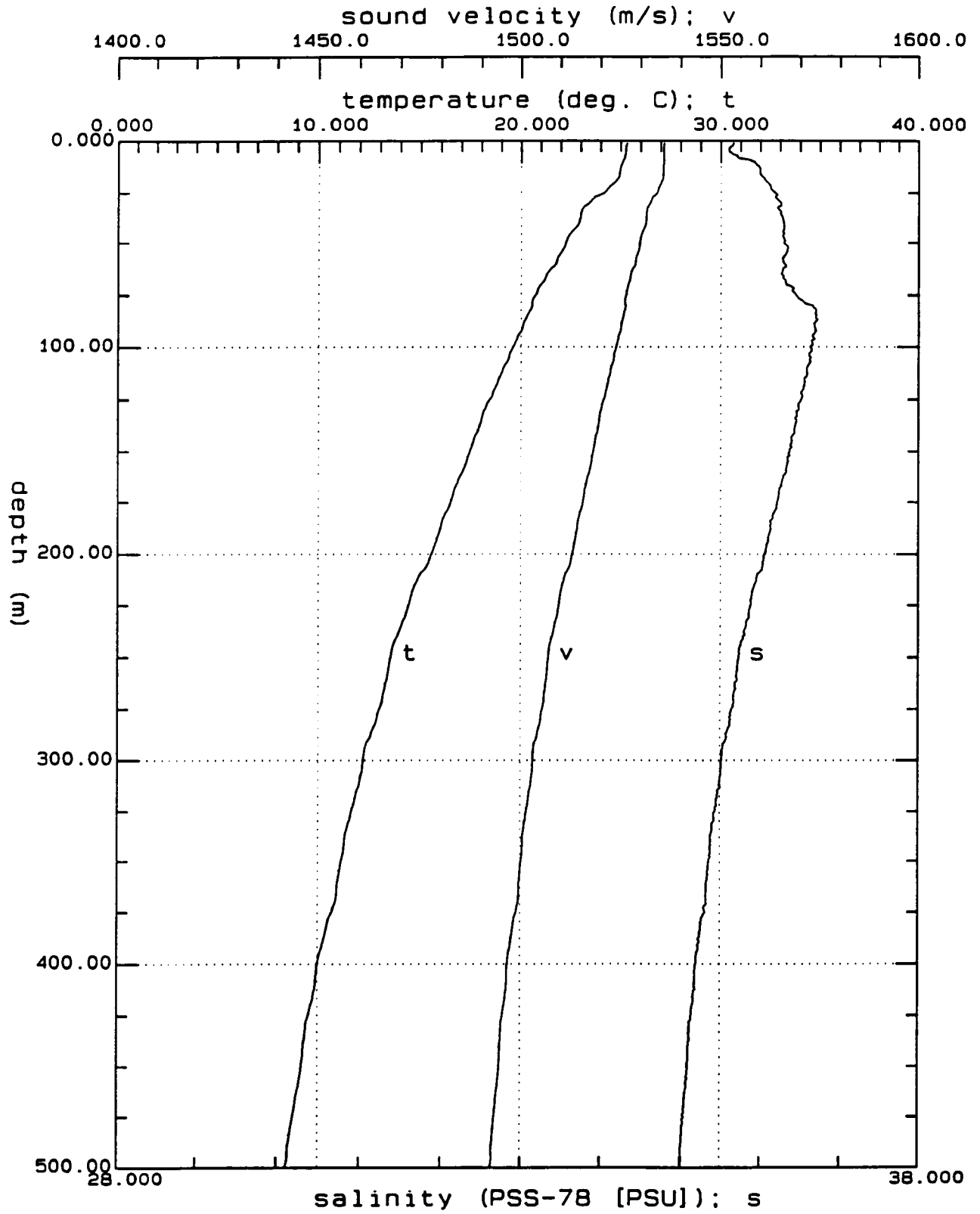
06-059.CNV: Gulfcet Cruise 05



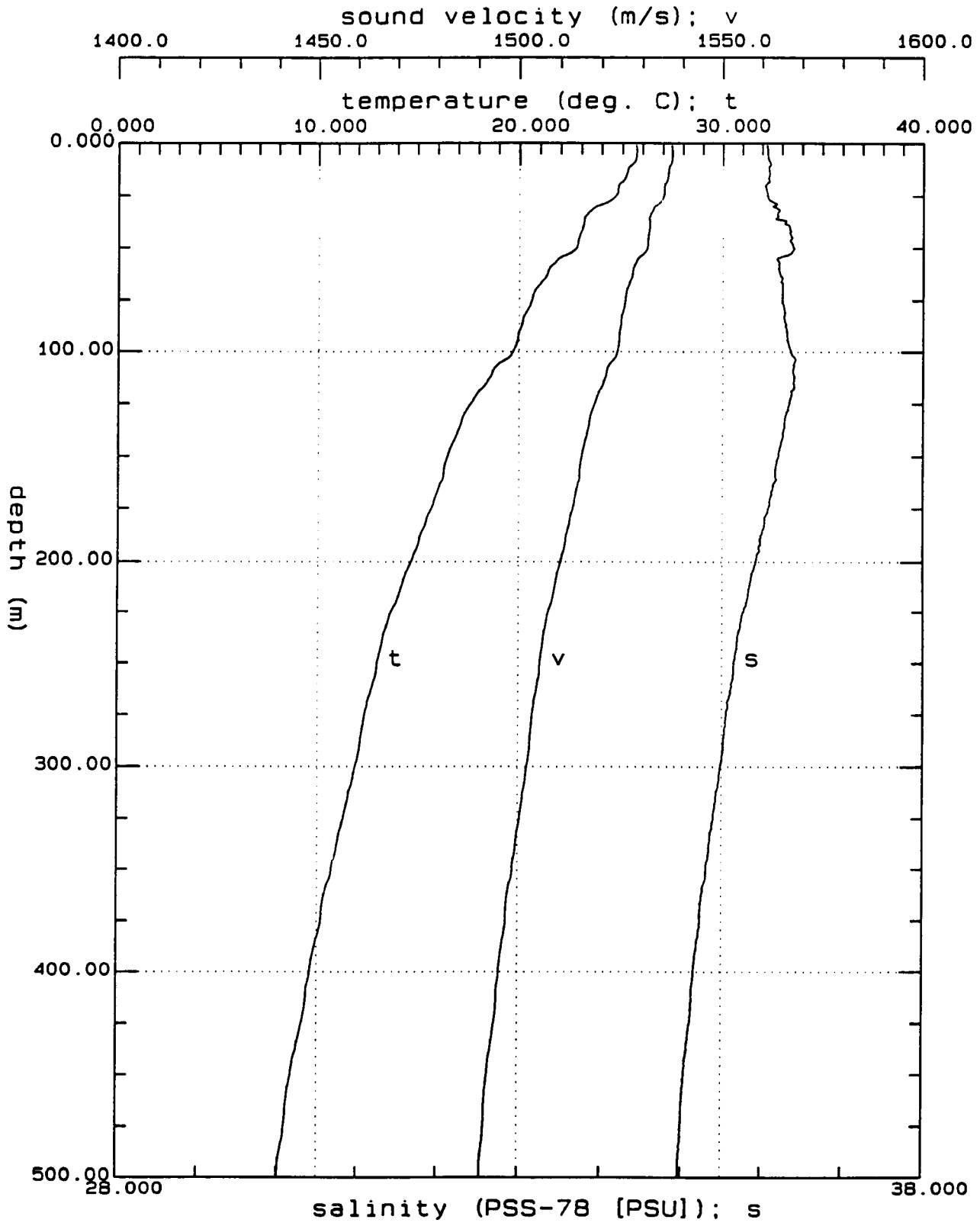
06-064.CNV: Gulfcet Cruise 05



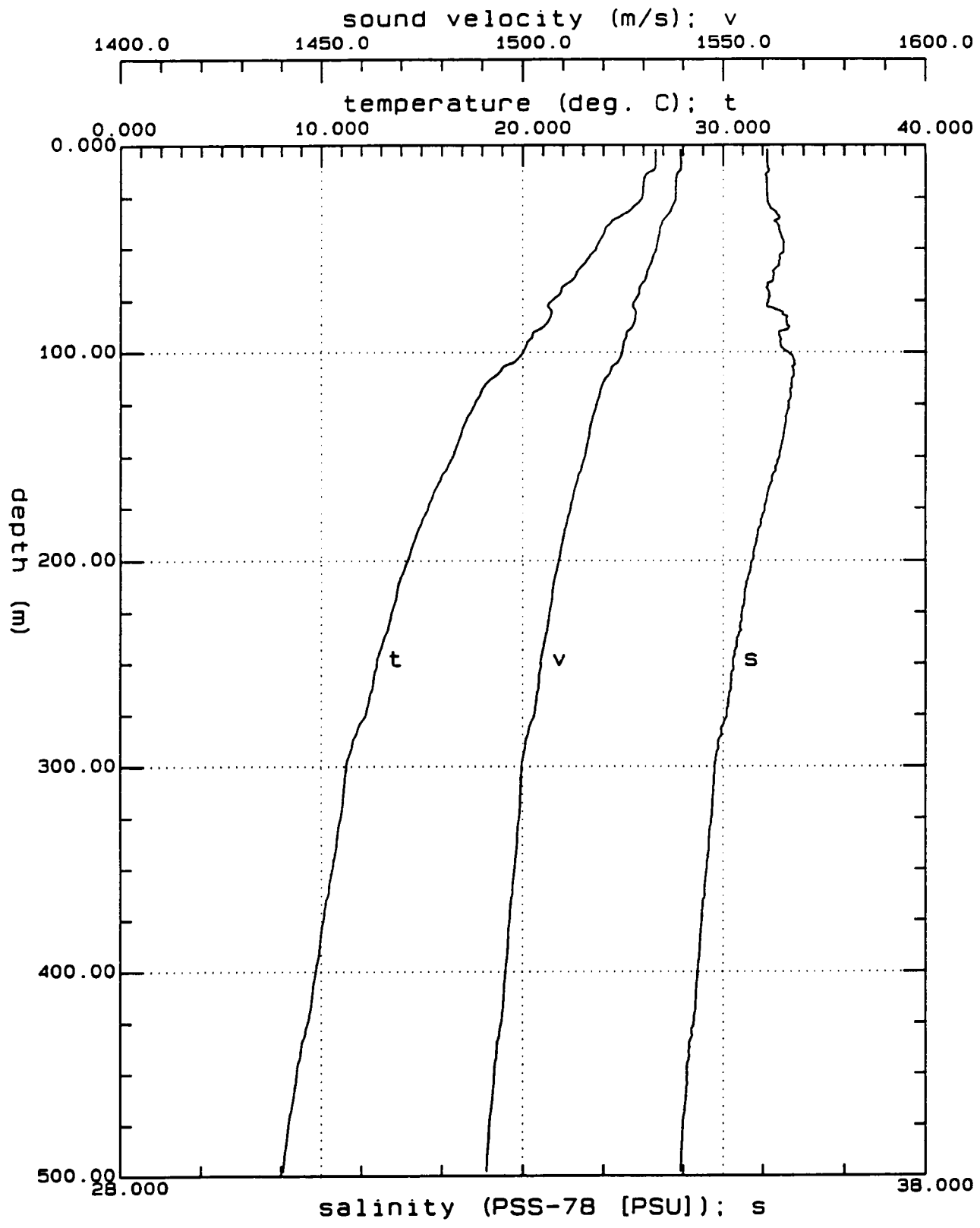
07-065.CNV: Gulfcet Cruise 05



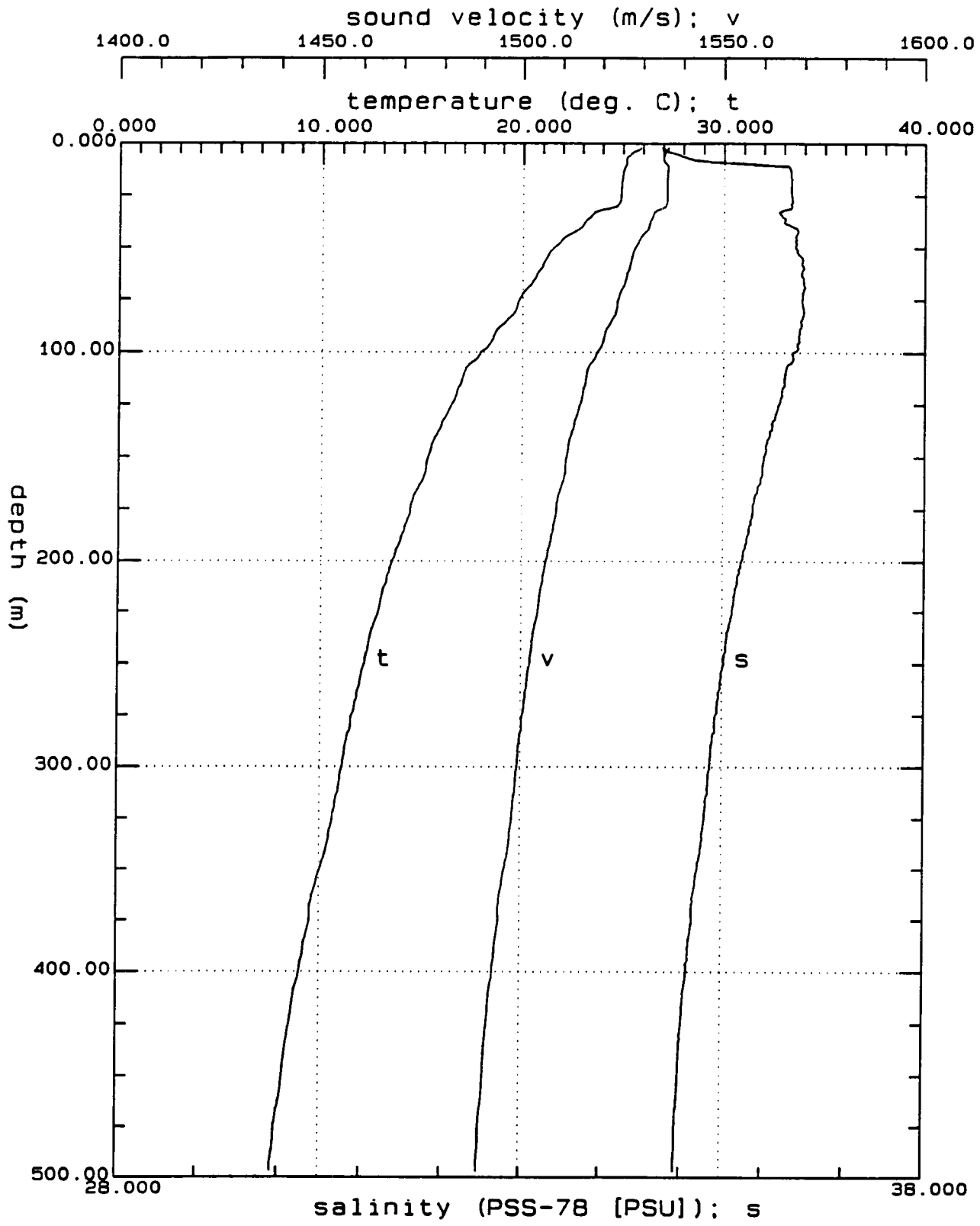
07-071.CNV: Gulfcet Cruise 05



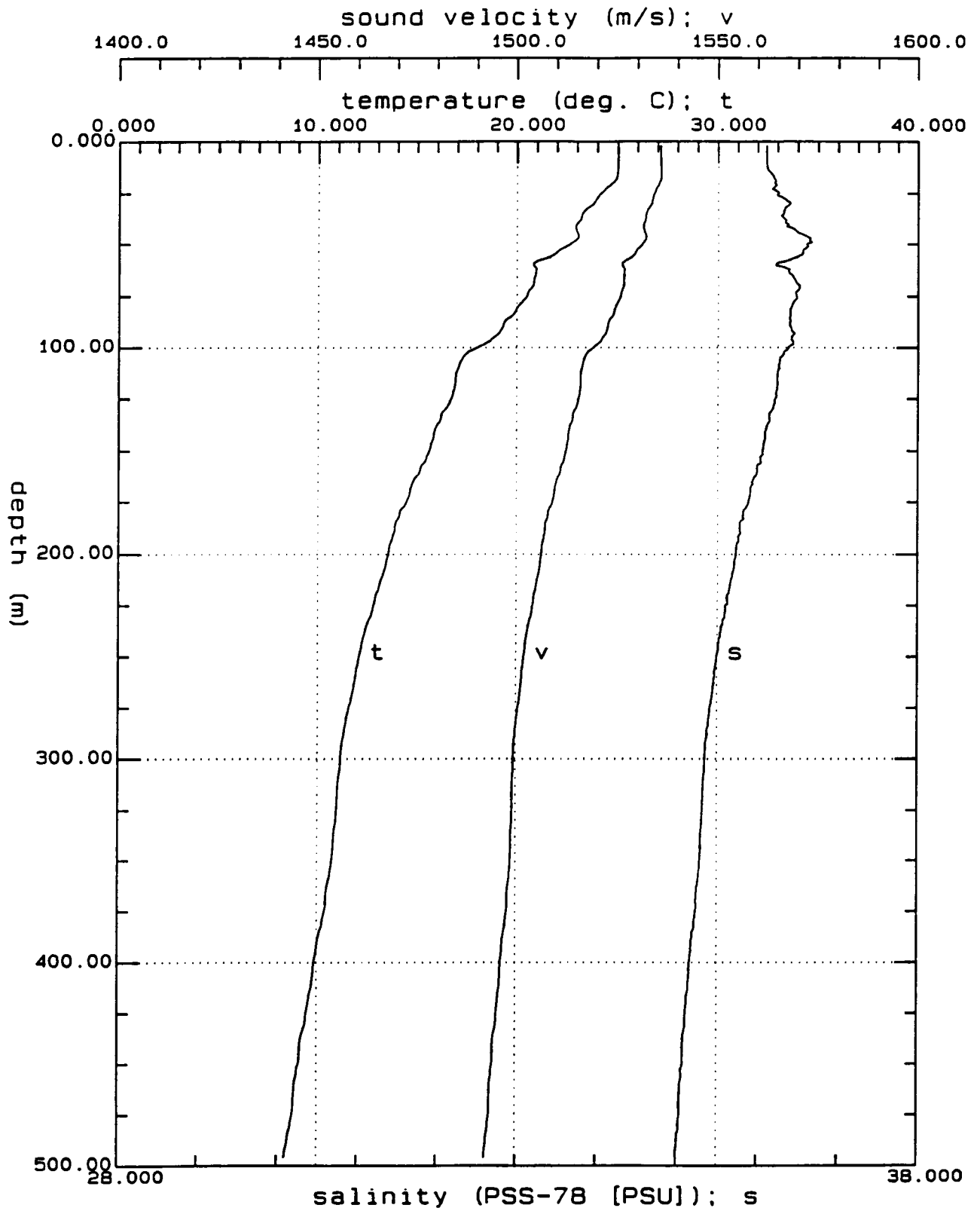
07-073.CNV: Gulfcet Cruise 05



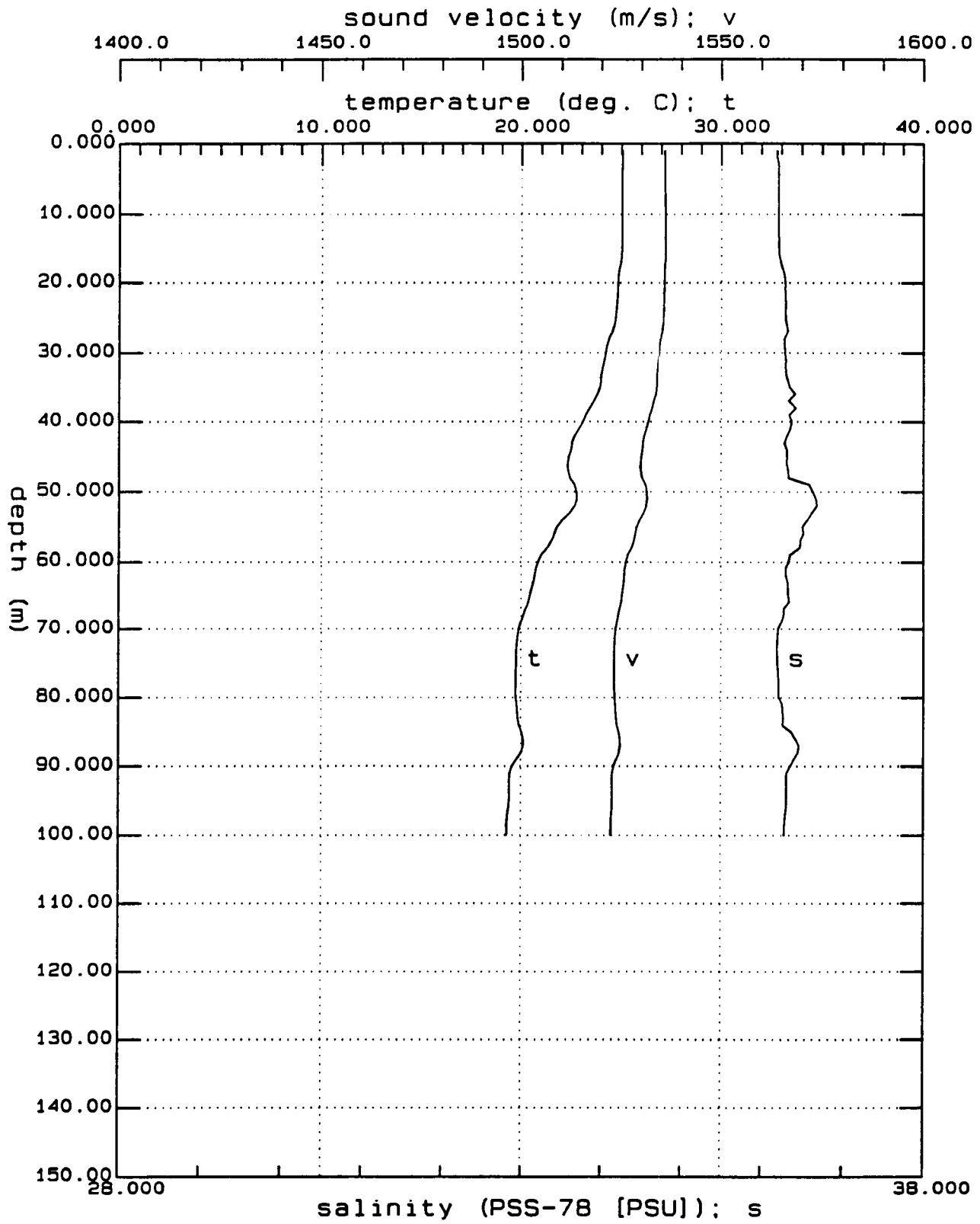
07-075.CNV: Gulfcet Cruise 05



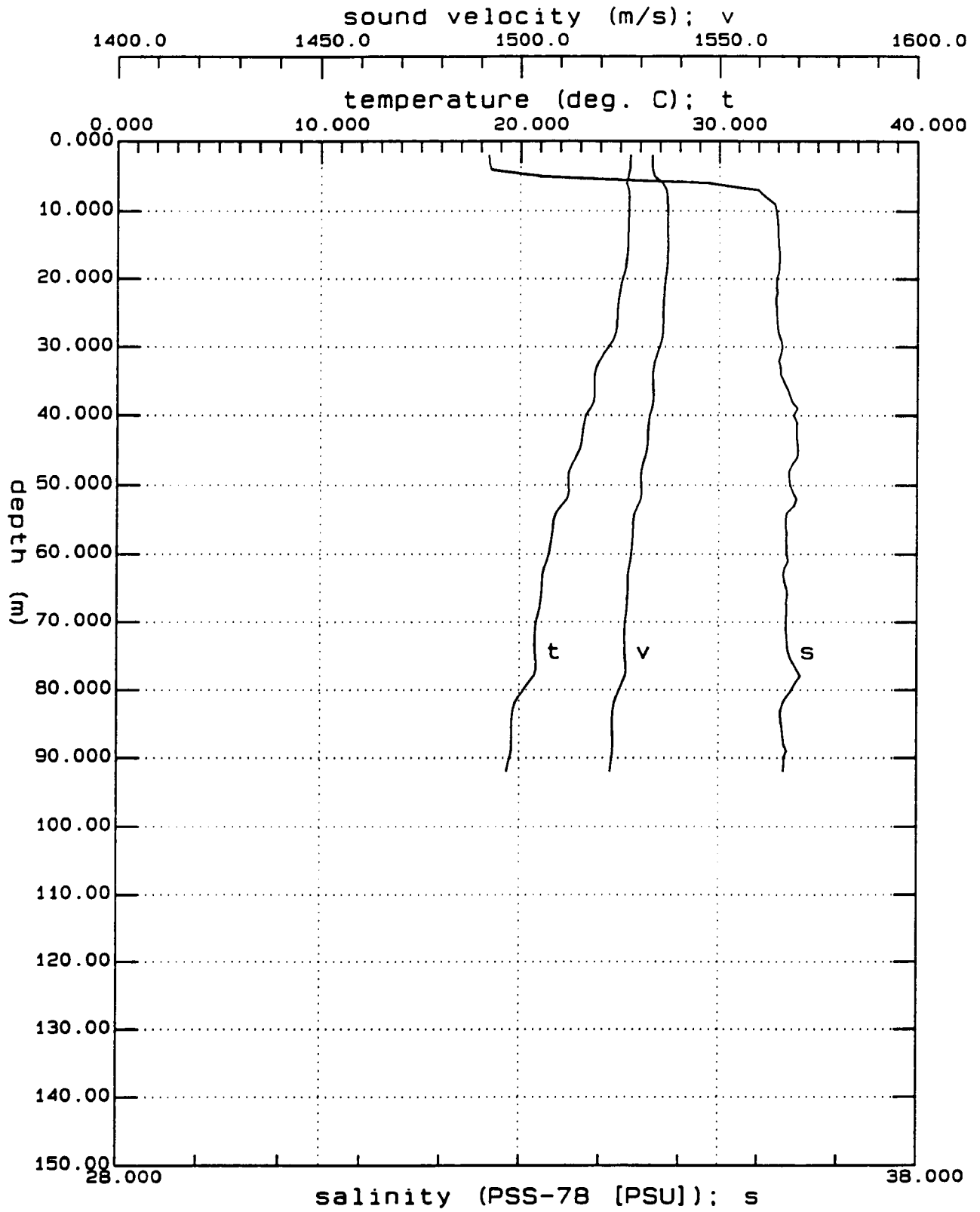
08-076.CNV: Gulfcet Cruise 05



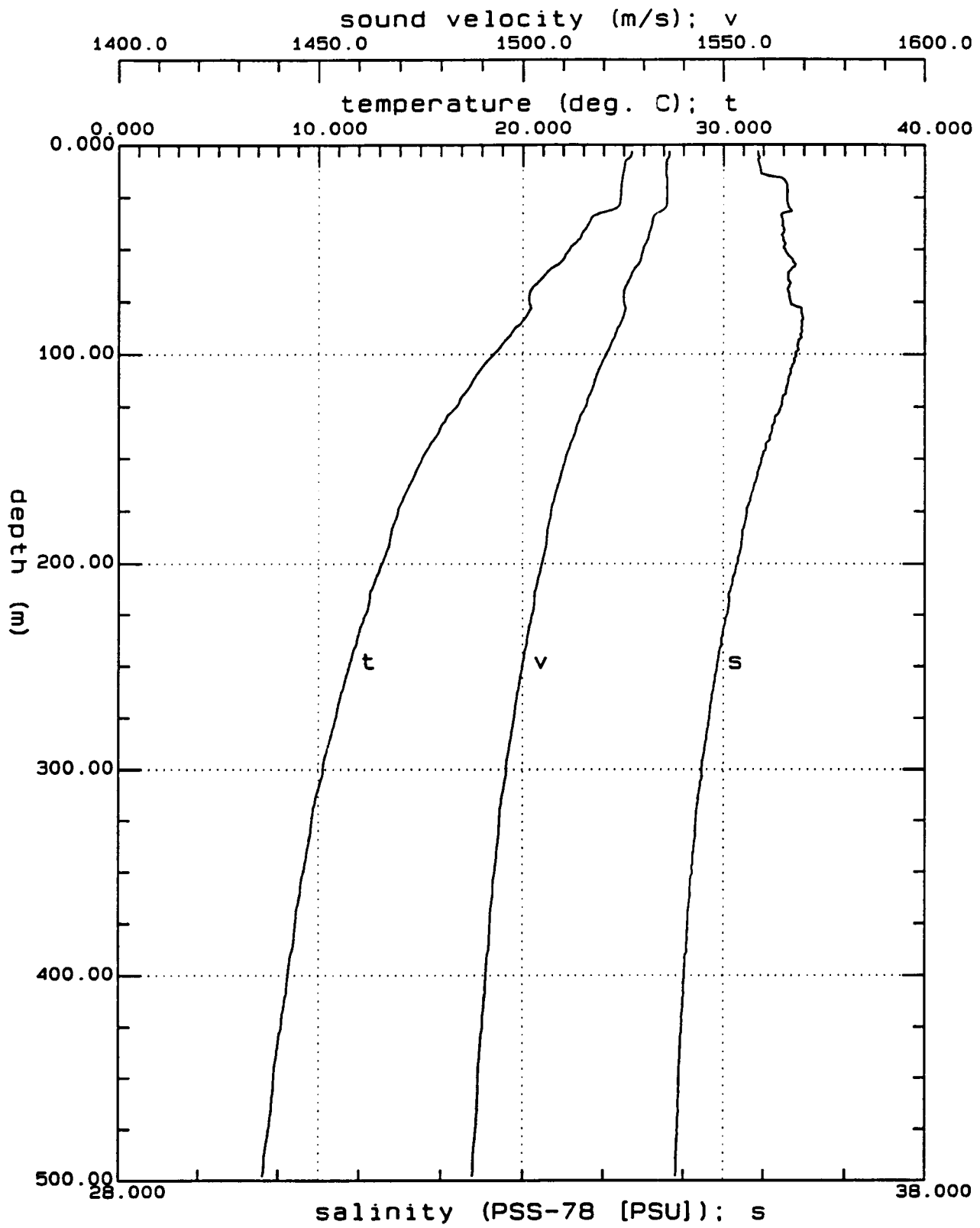
08-080.CNV: Gulfcet Cruise 05



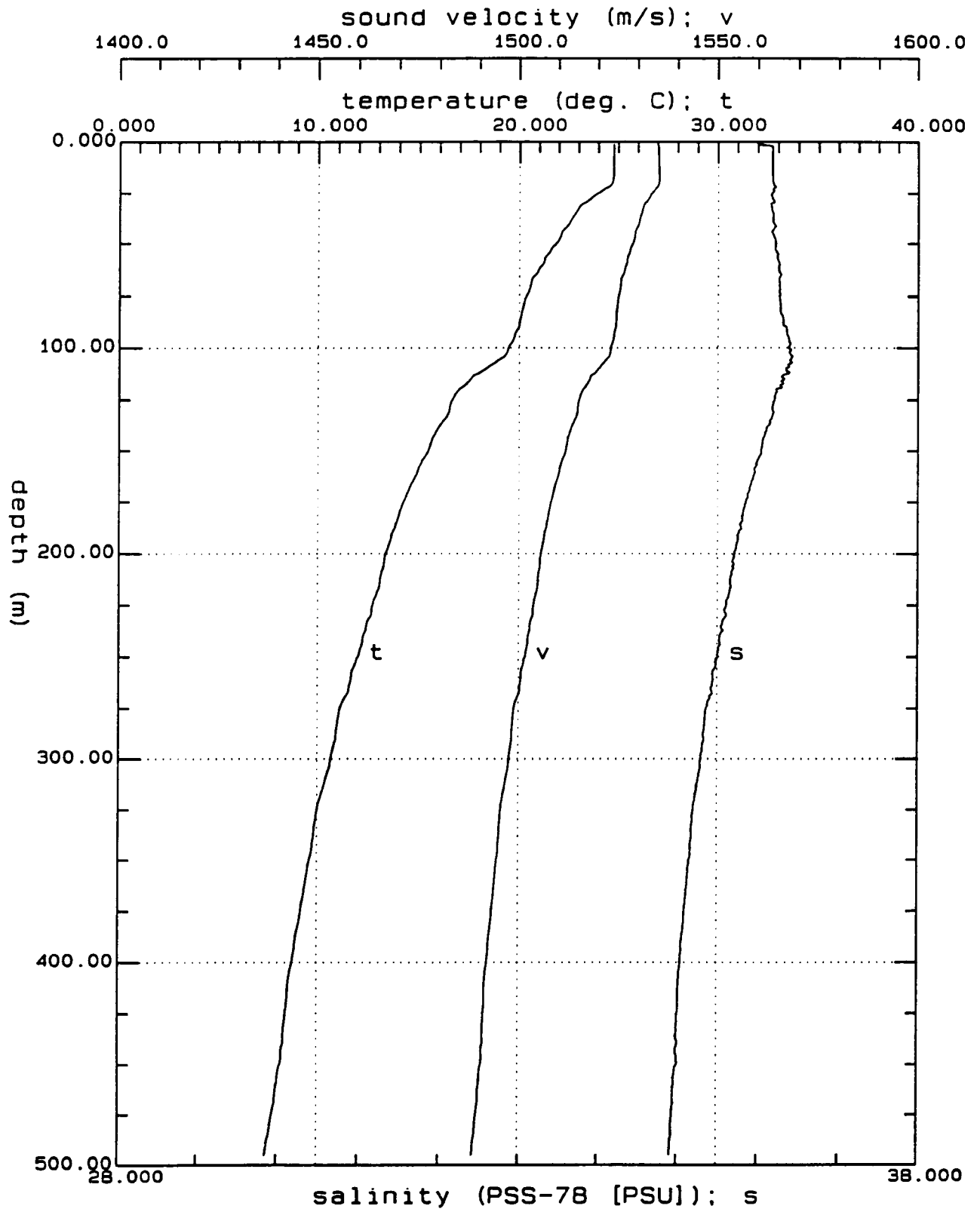
08-086.CNV: Gulfcet Cruise 05



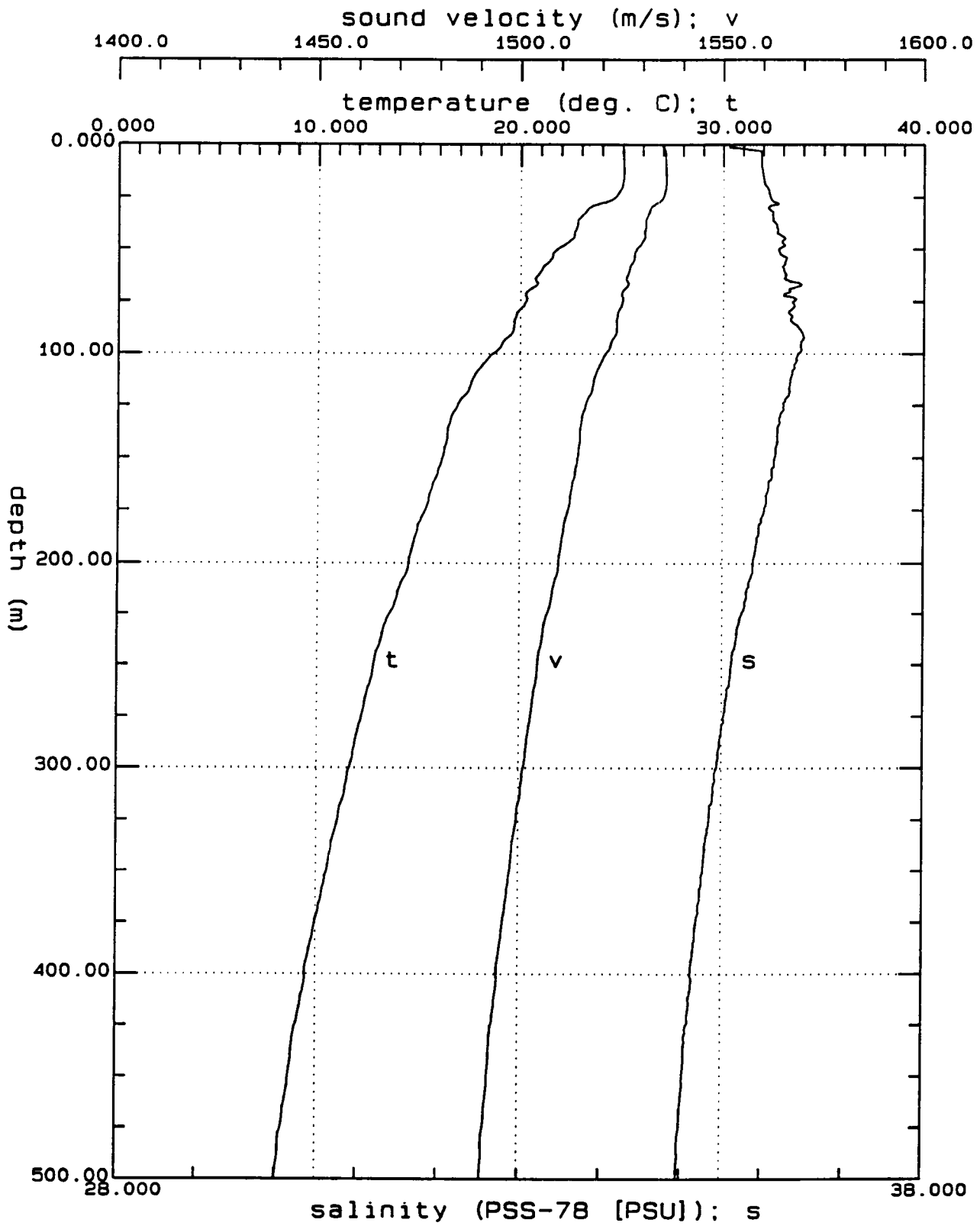
09-087.CNV: Gulfcet Cruise 05



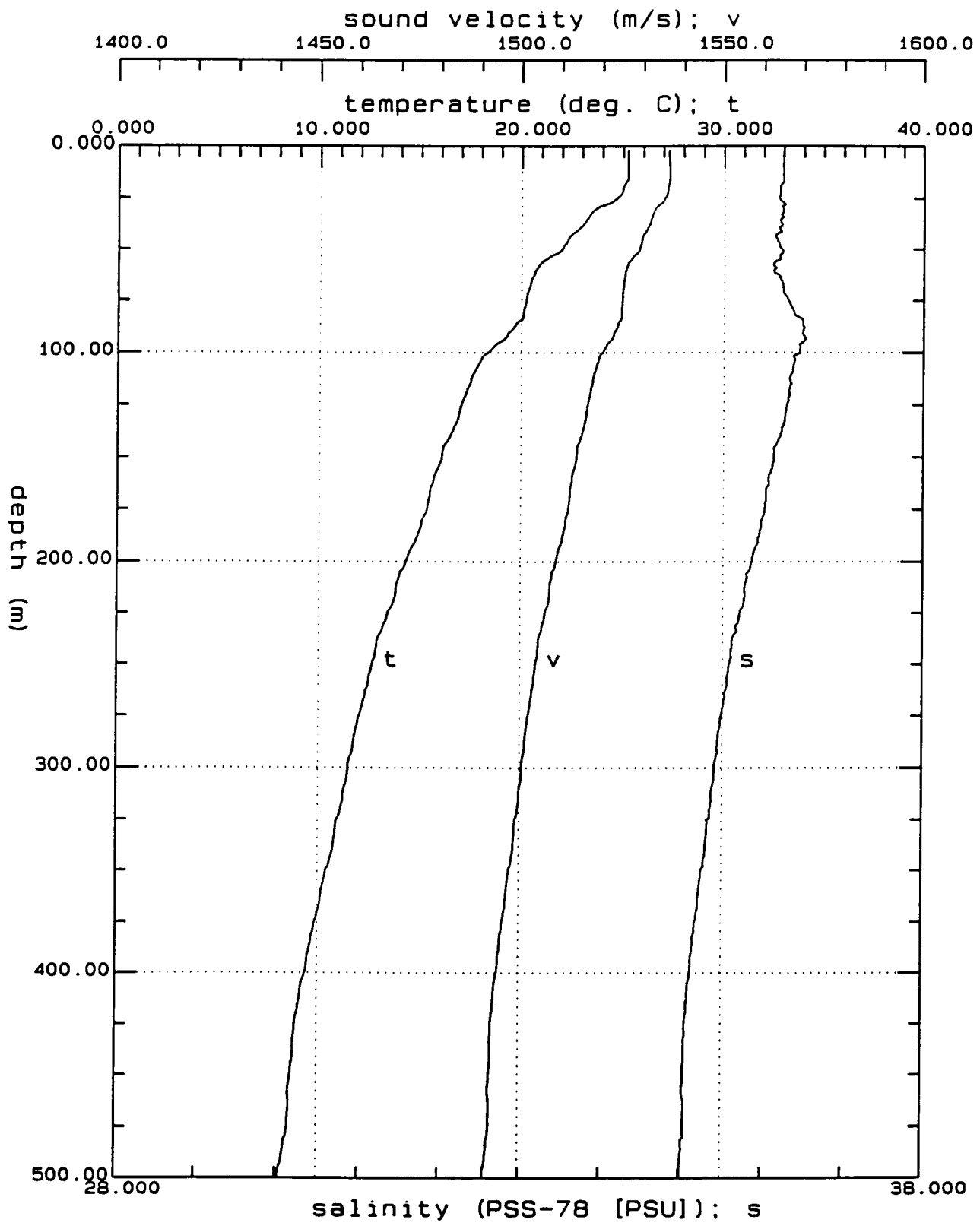
09-093.CNV: Gulfcet Cruise 05



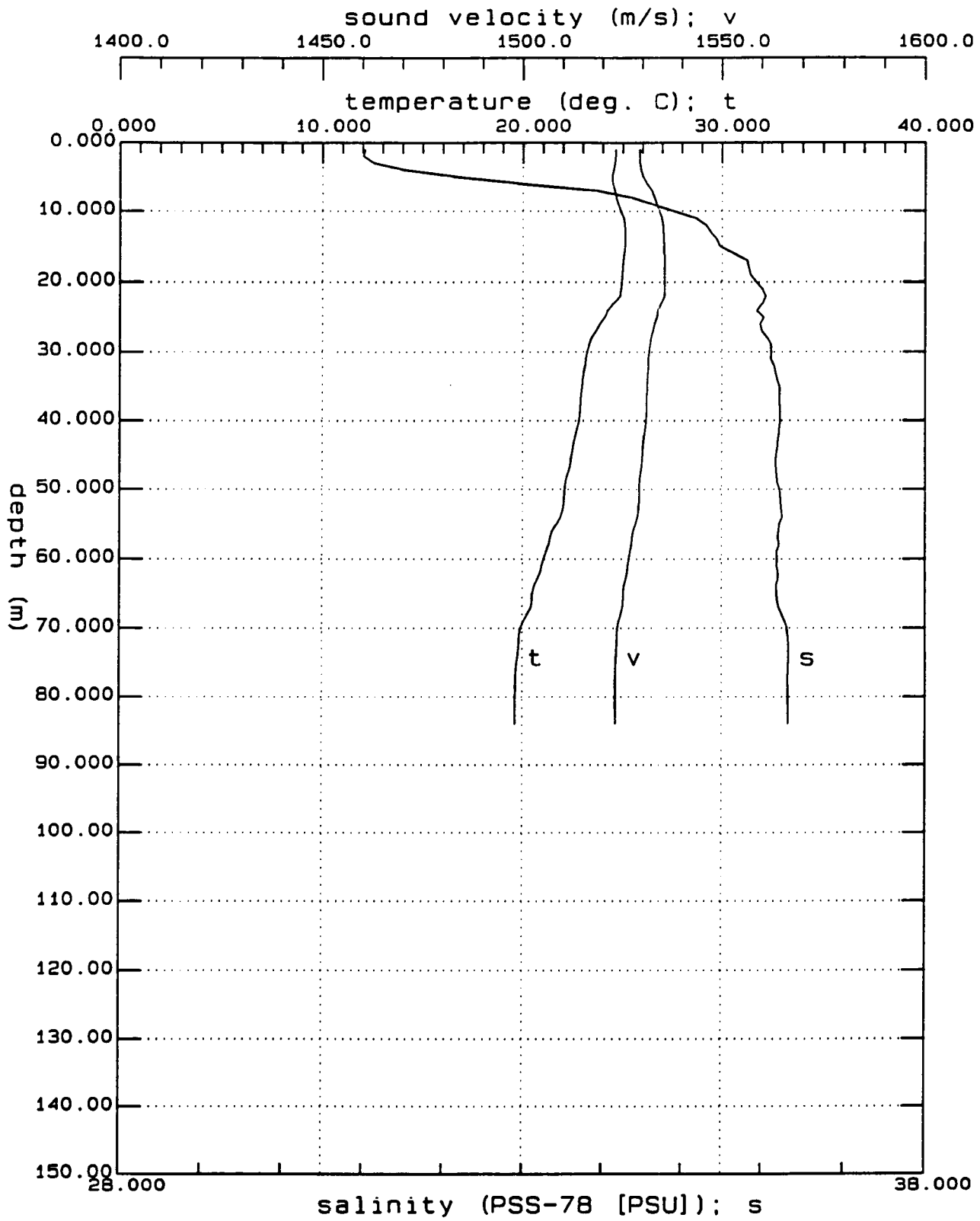
09-096.CNV: Gulfcet Cruise 05



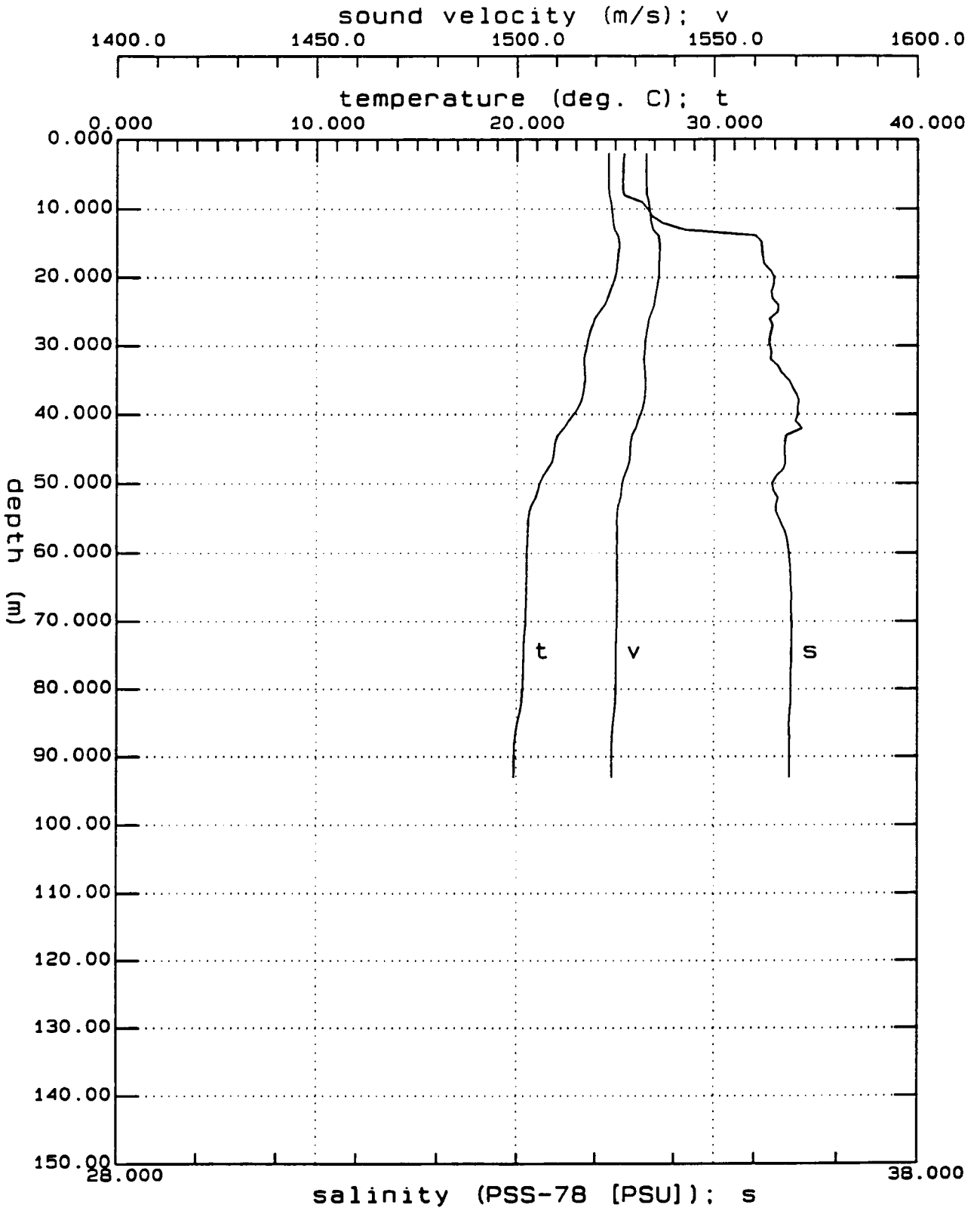
10-097.CNV: Gulfcet Cruise 05



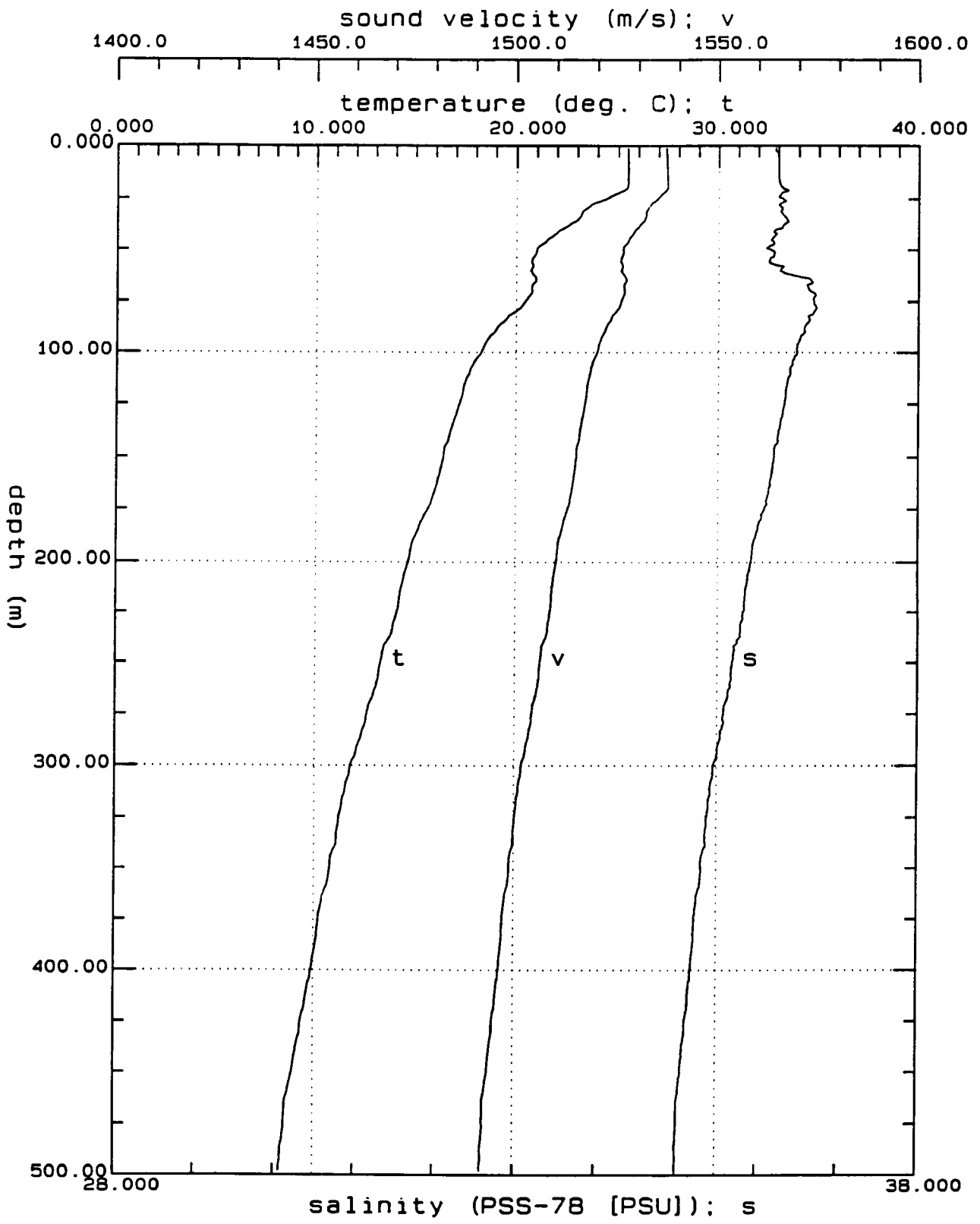
10-100.CNV: Gulfcet Cruise 05



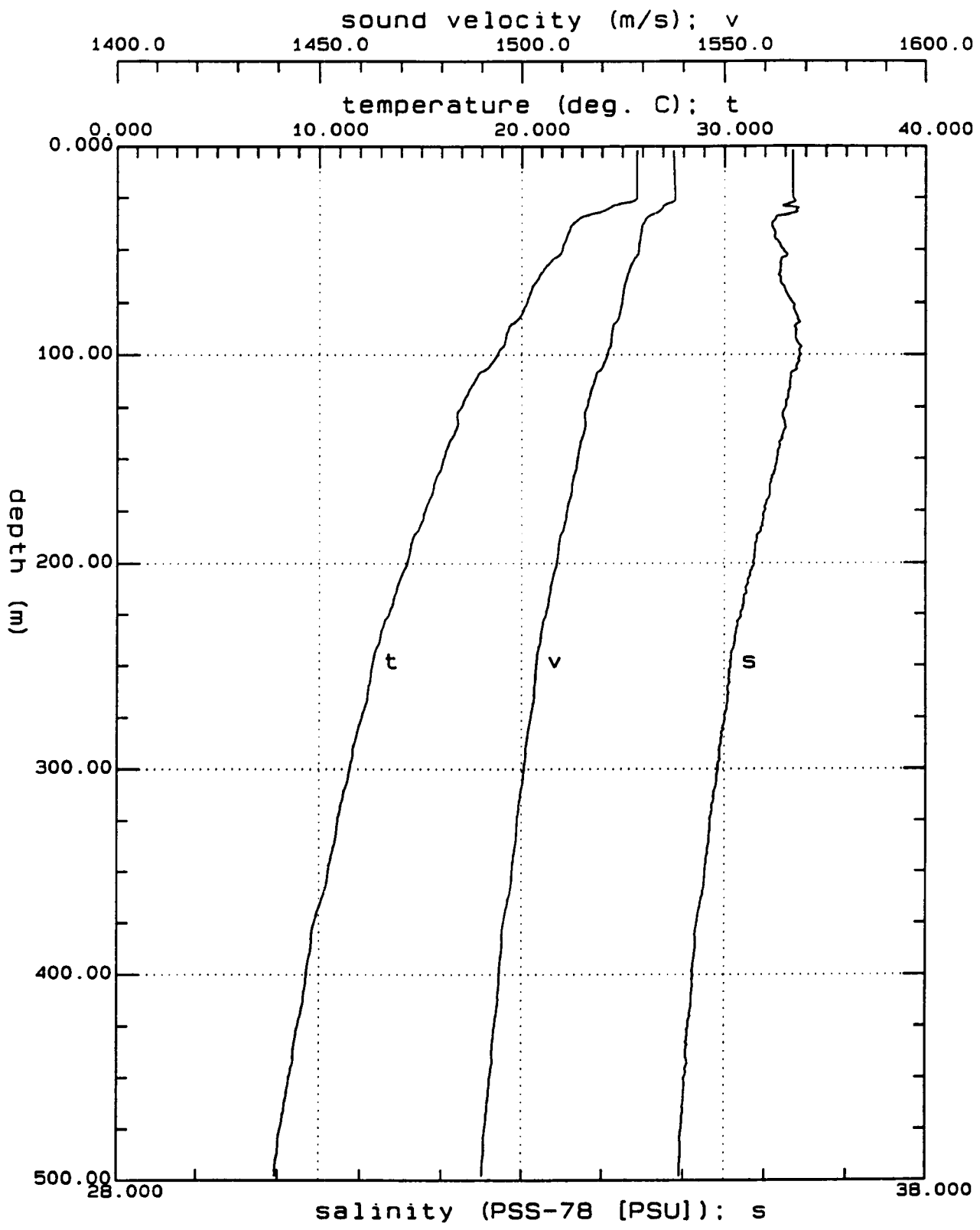
10-105.CNV: Gulfcet Cruise 05



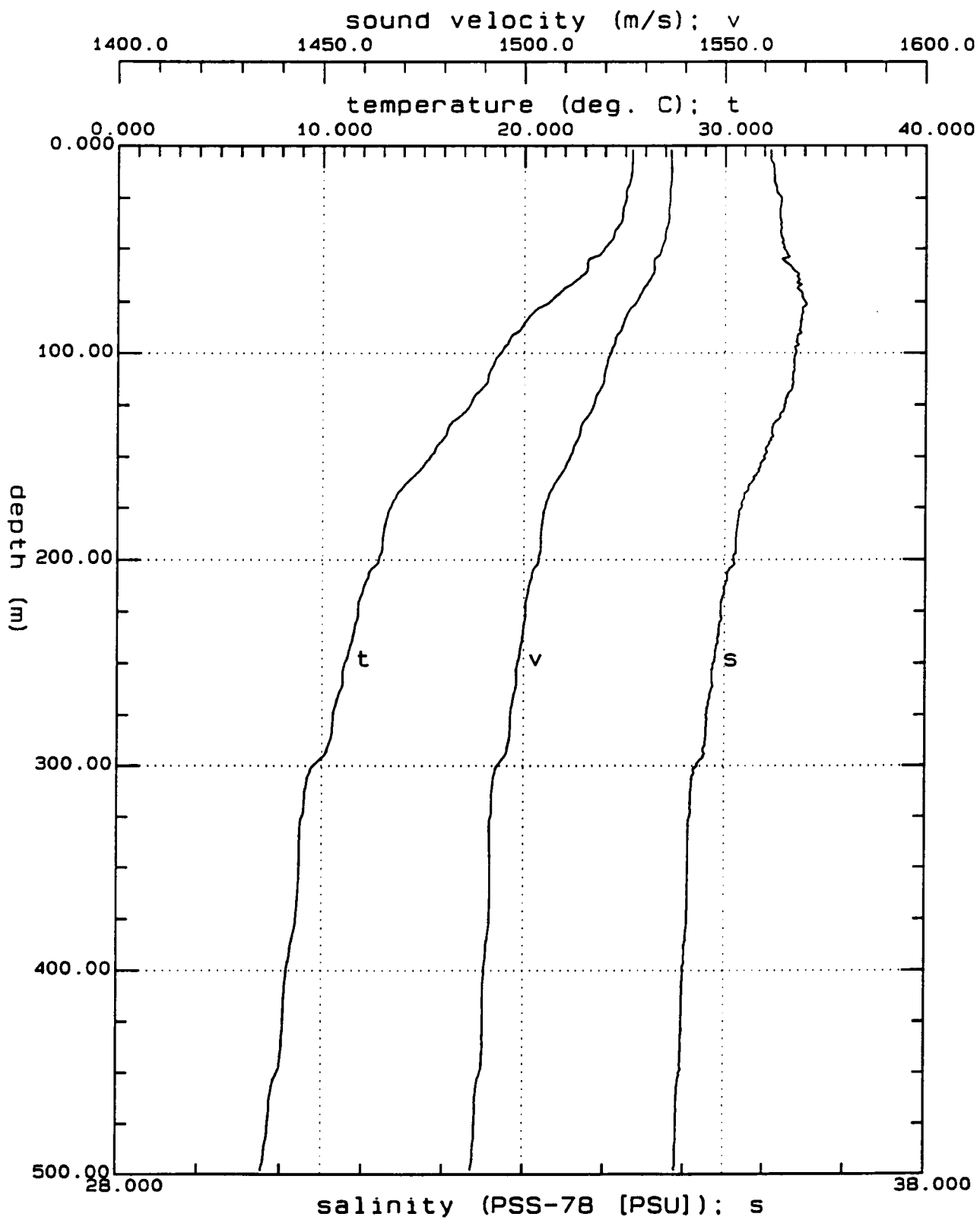
11-106.CNV: Gulfcet Cruise 05



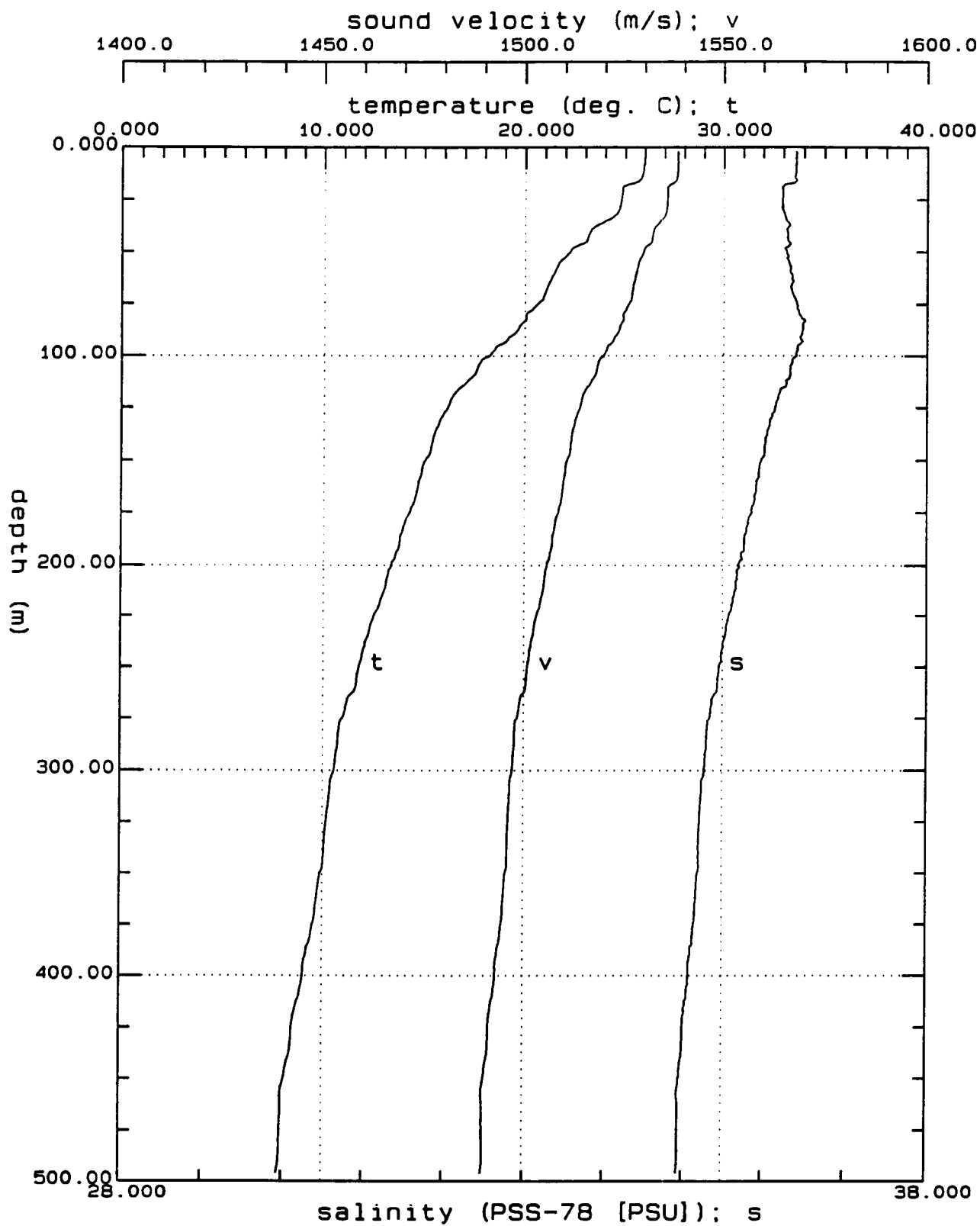
11-112.CNV: Gulfcet Cruise 05



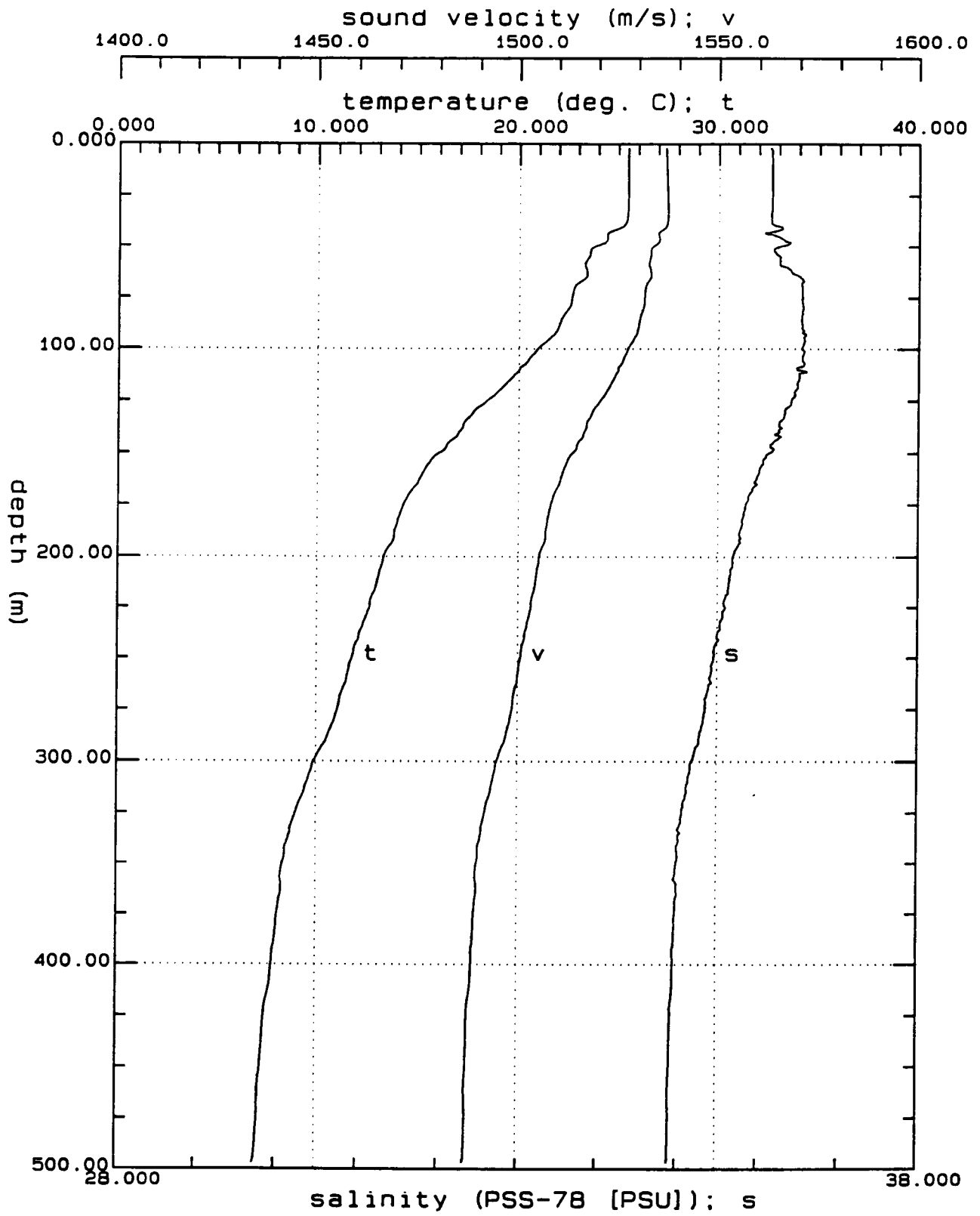
11-115.CNV: Gulfcet Cruise 05



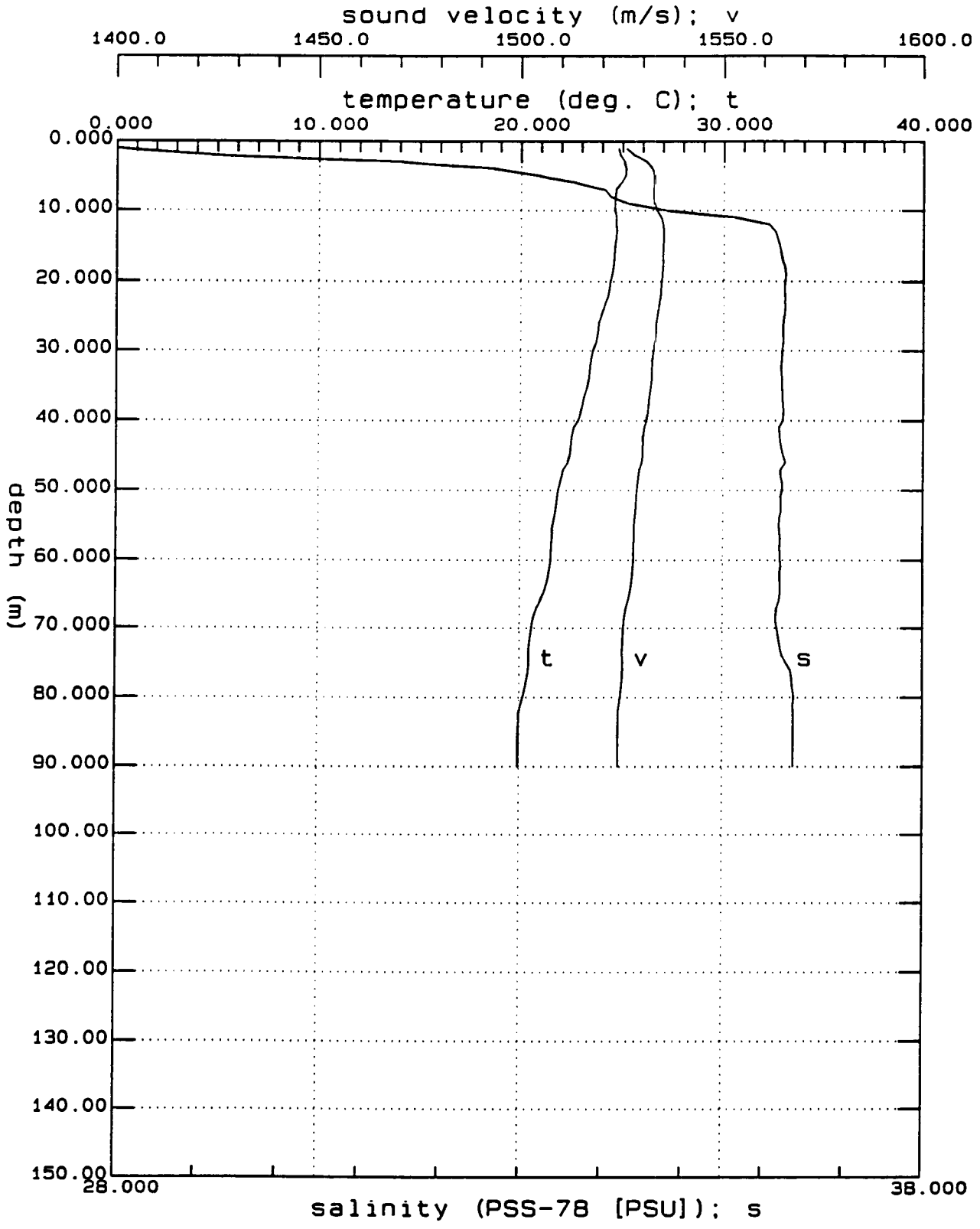
12-116.CNV: Gulfcet Cruise 05



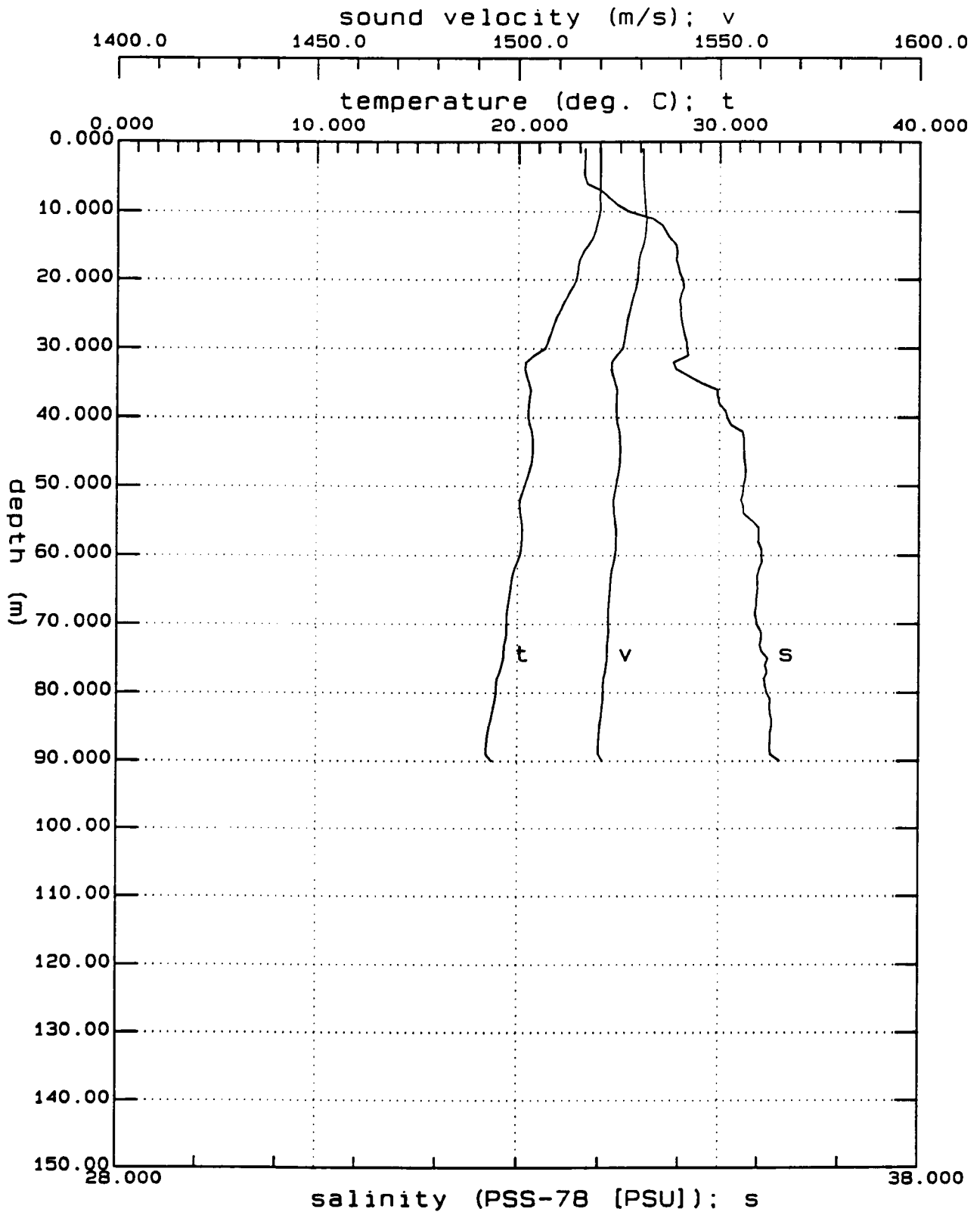
12-117.CNV: Gulfcet Cruise 05



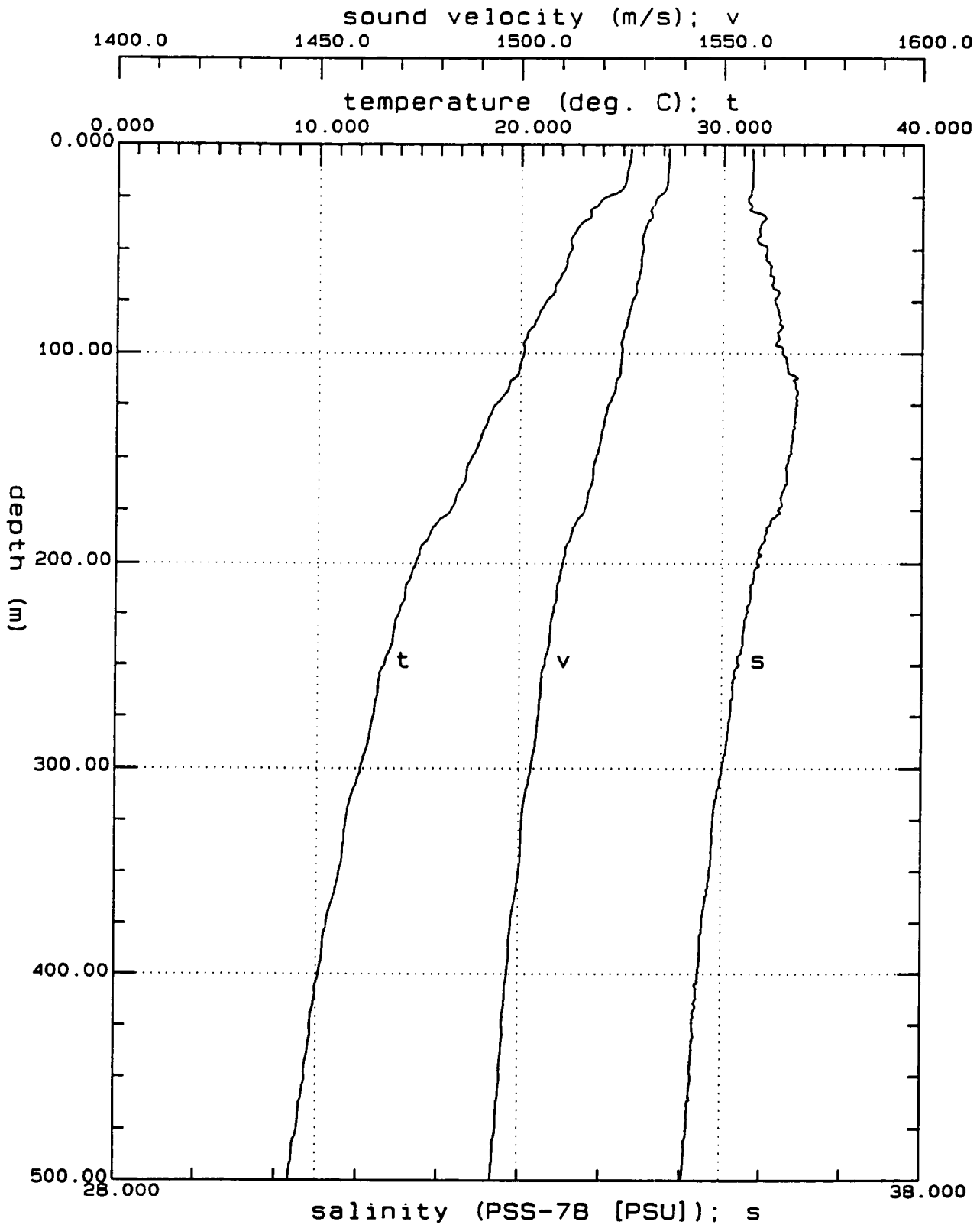
12-119.CNV: Gulfcet Cruise 05



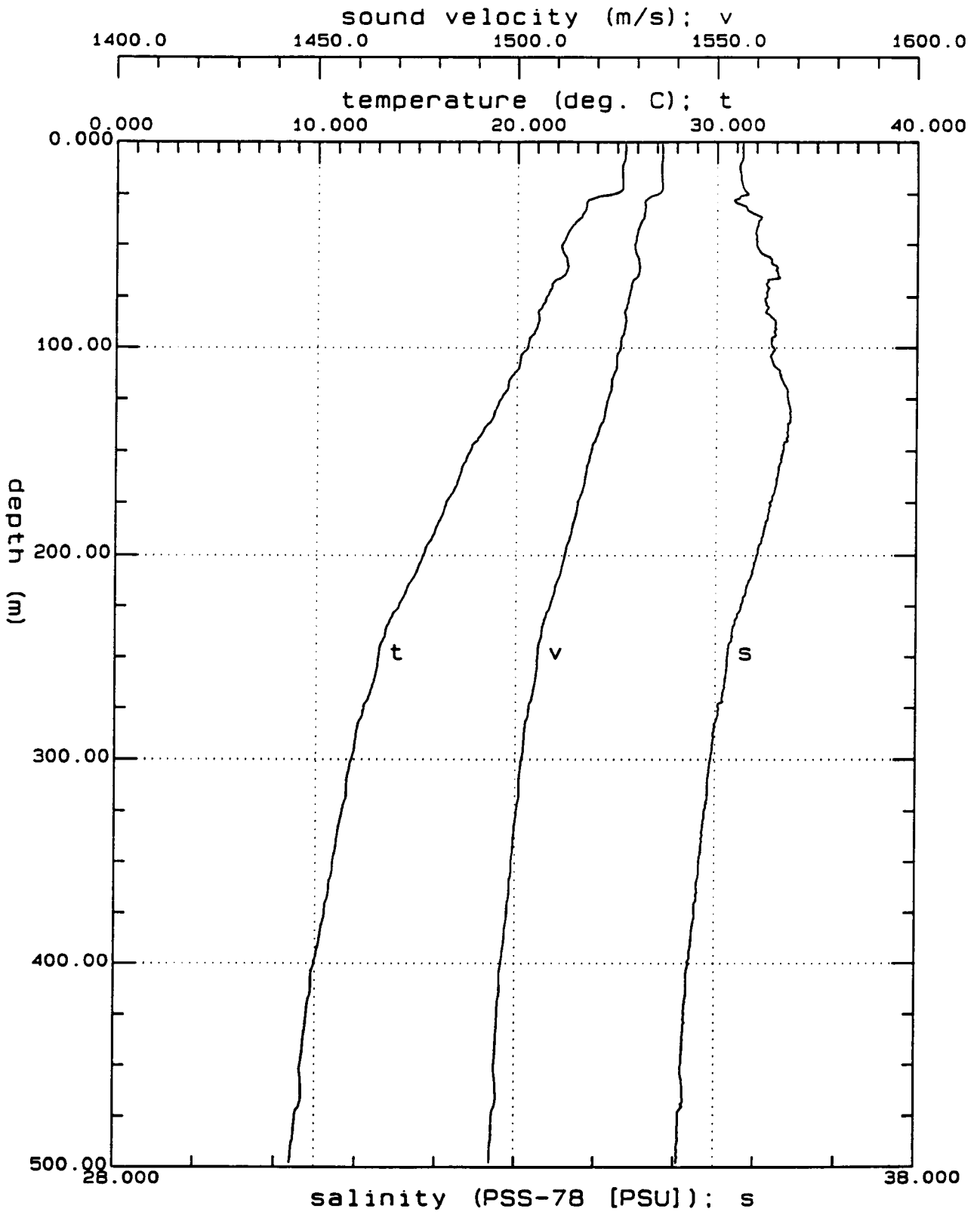
12-125.CNV: Gulfcet Cruise 05



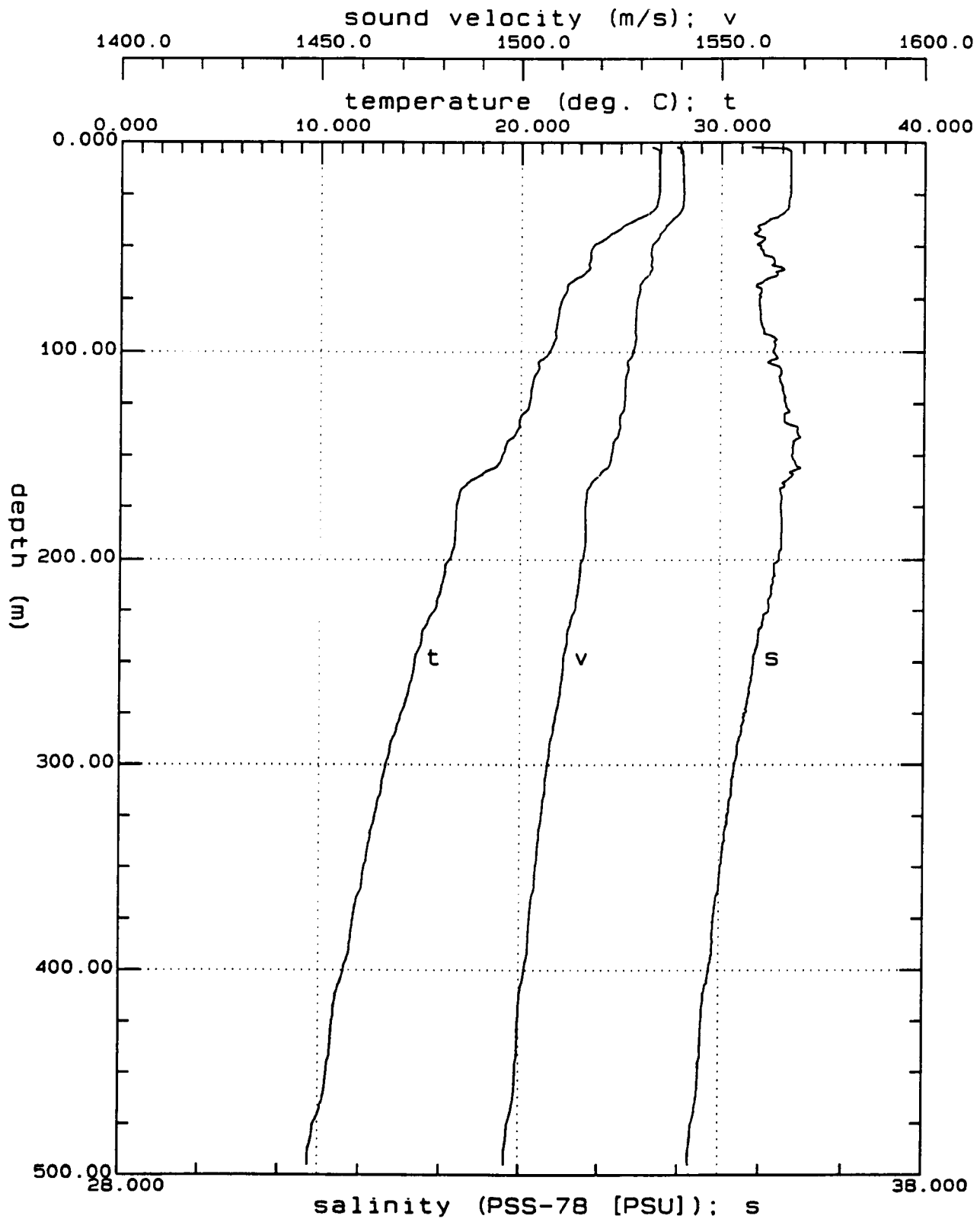
13-126.CNV: Gulfcet Cruise 05



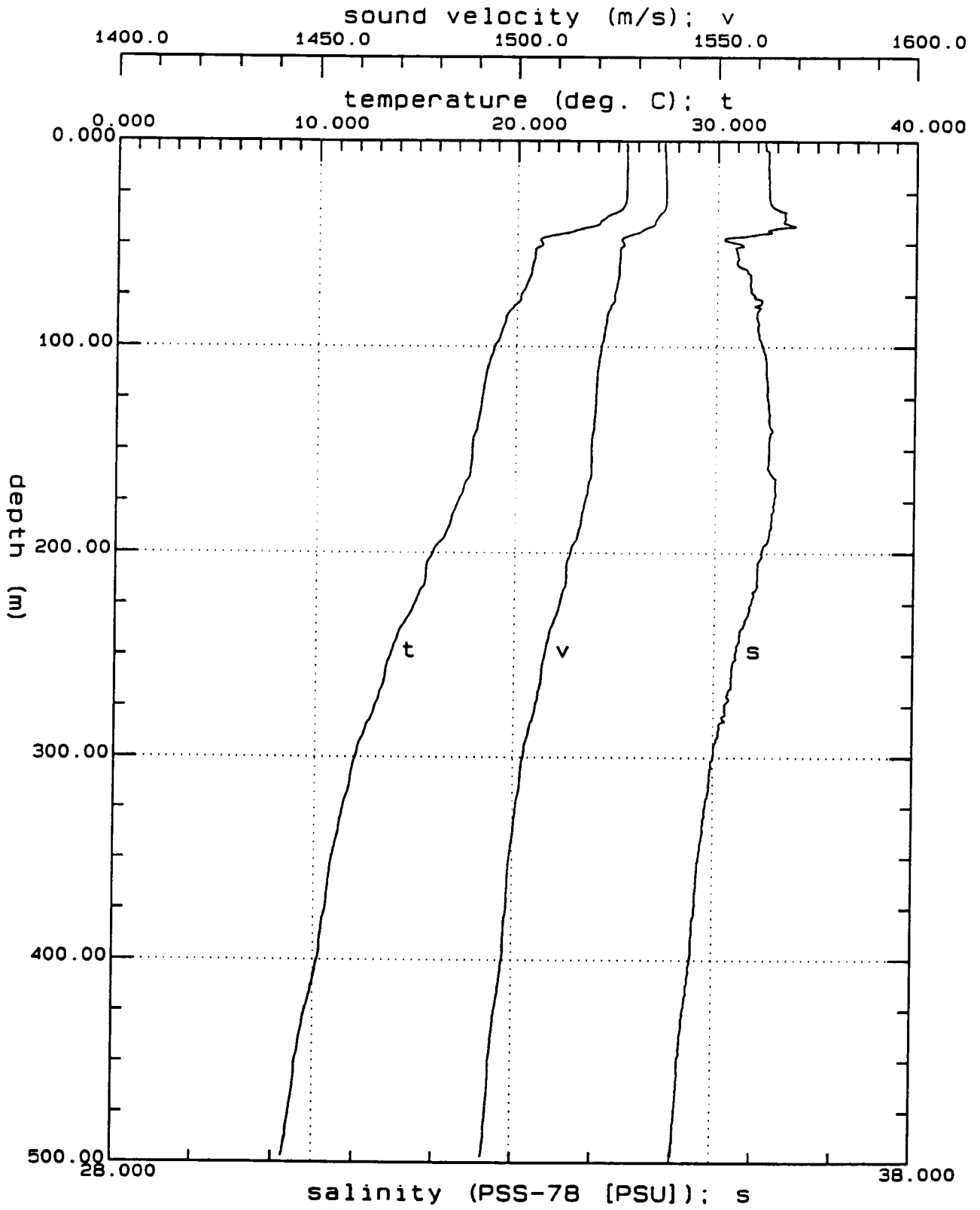
13-133.CNV: Gulfcet Cruise 05



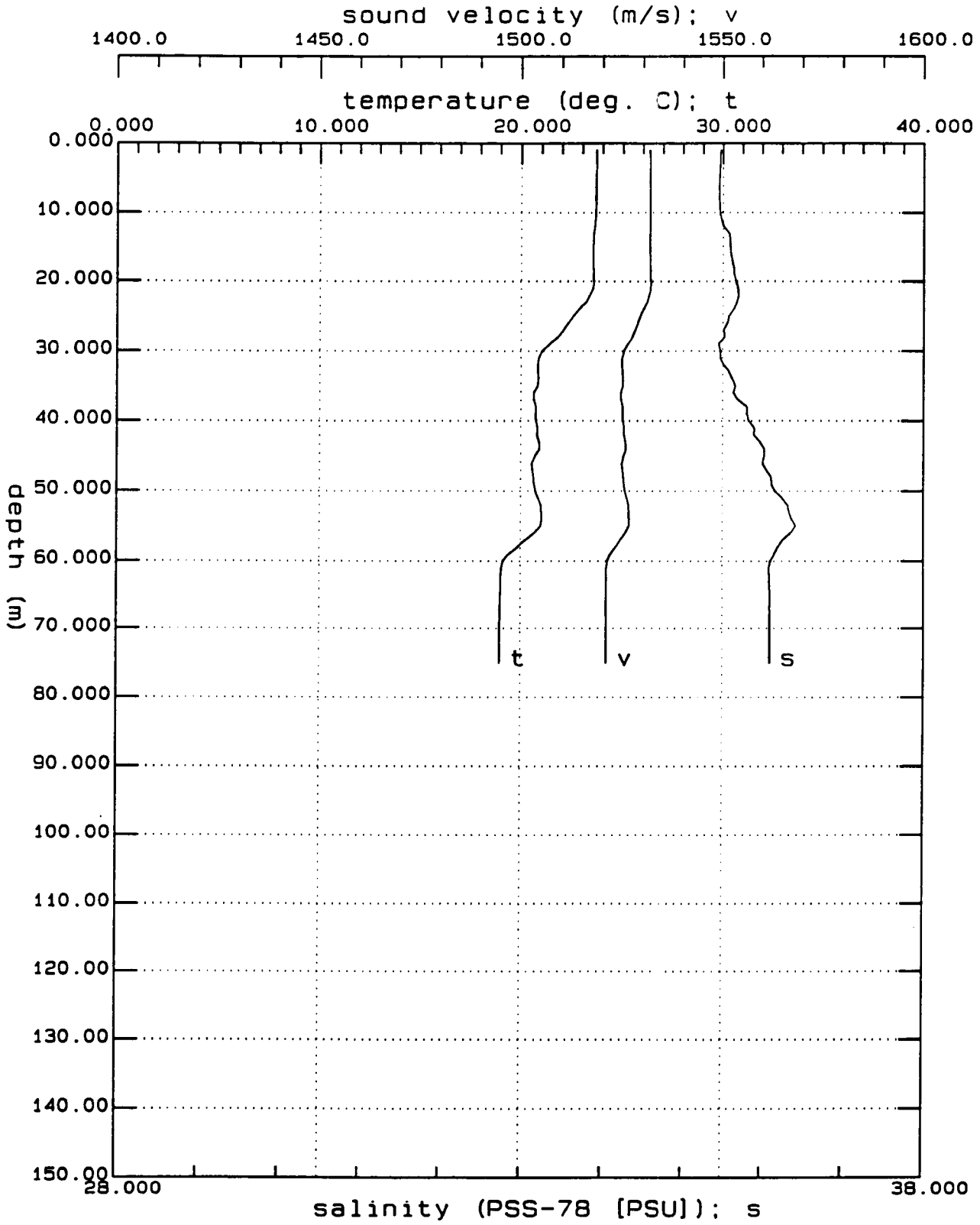
13-134.CNV: Gulfcet Cruise 05



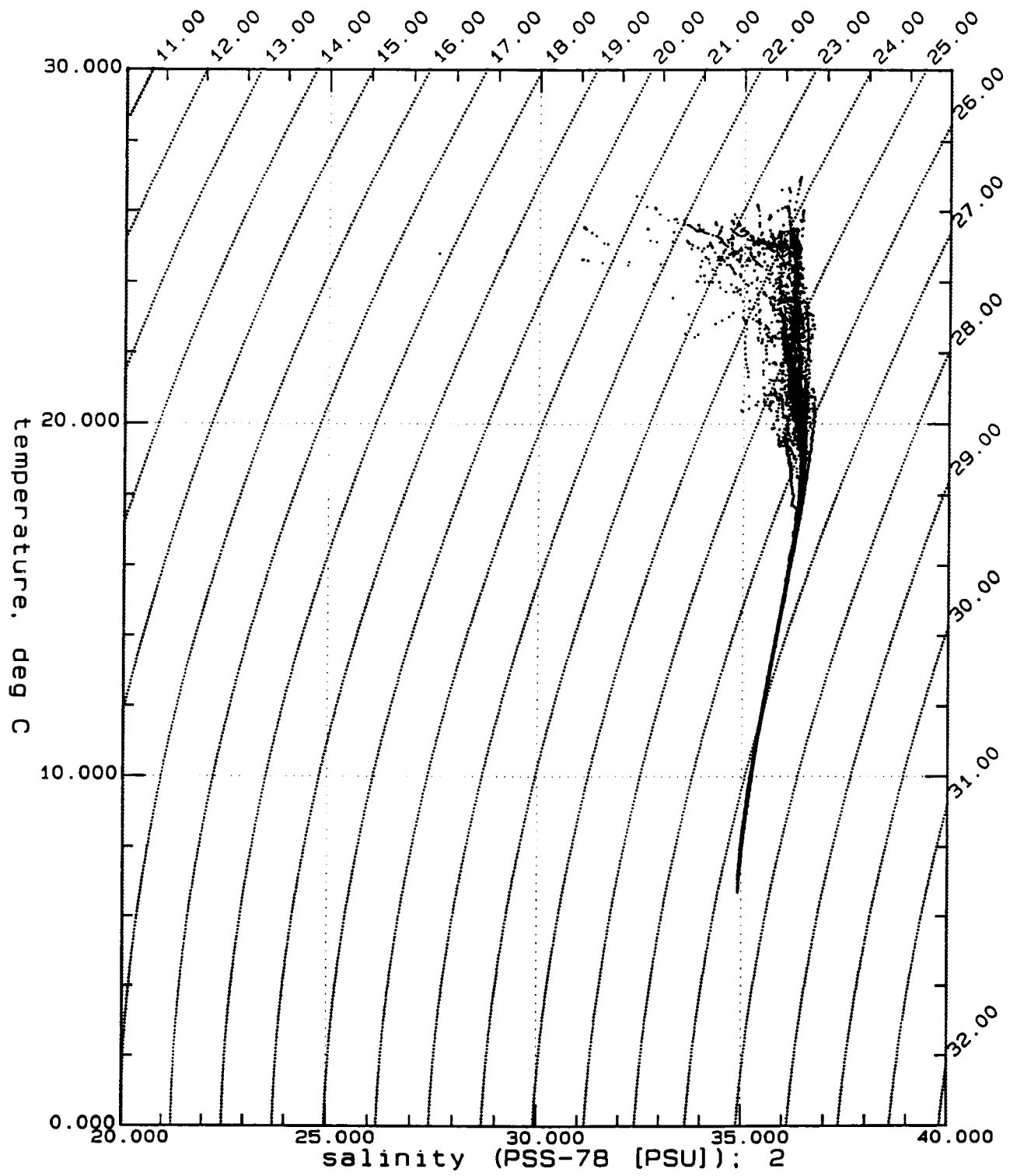
14-135.CNV: Gulfcet Cruise 05



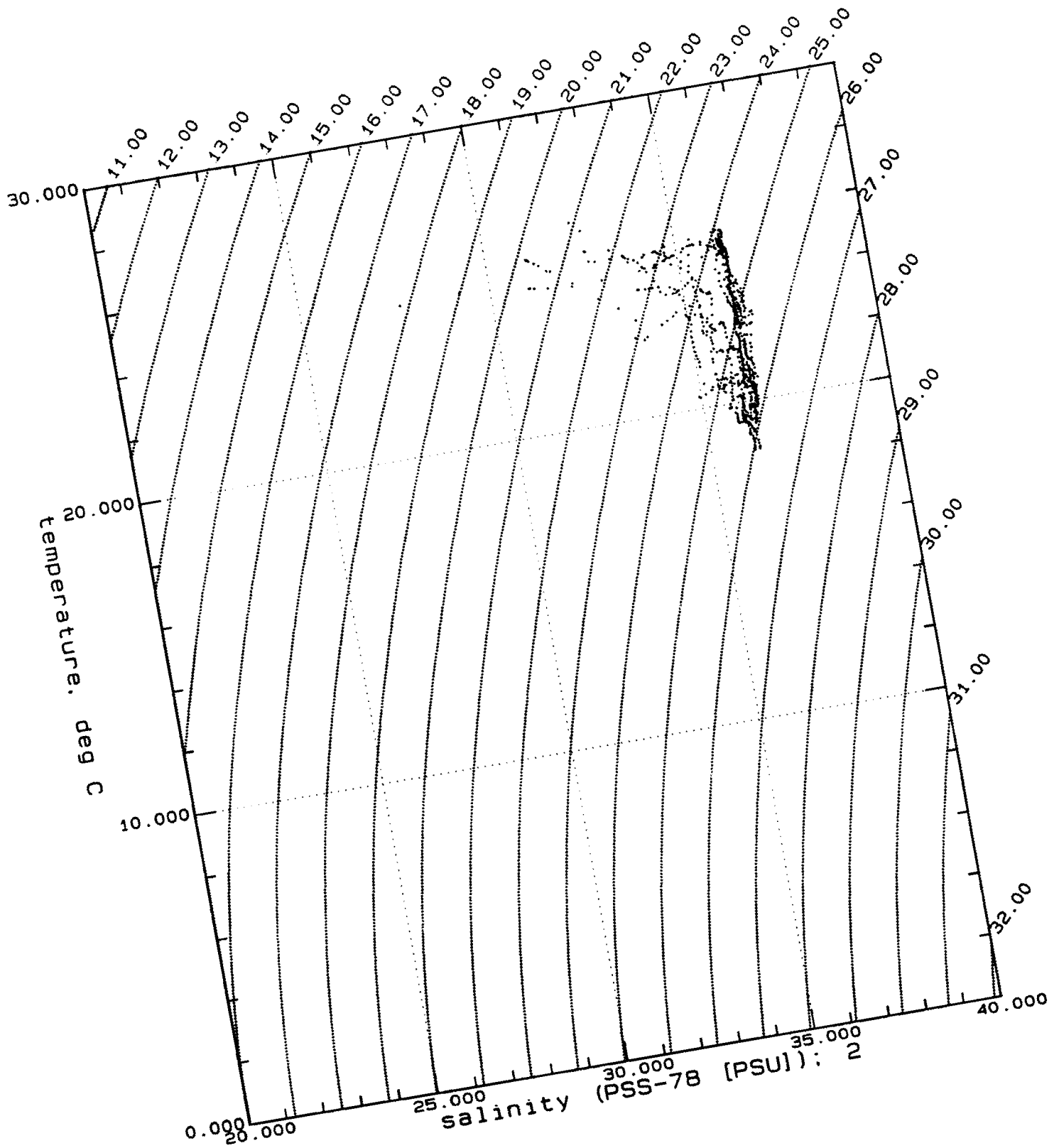
14-136.CNV: Gulfcet Cruise 05



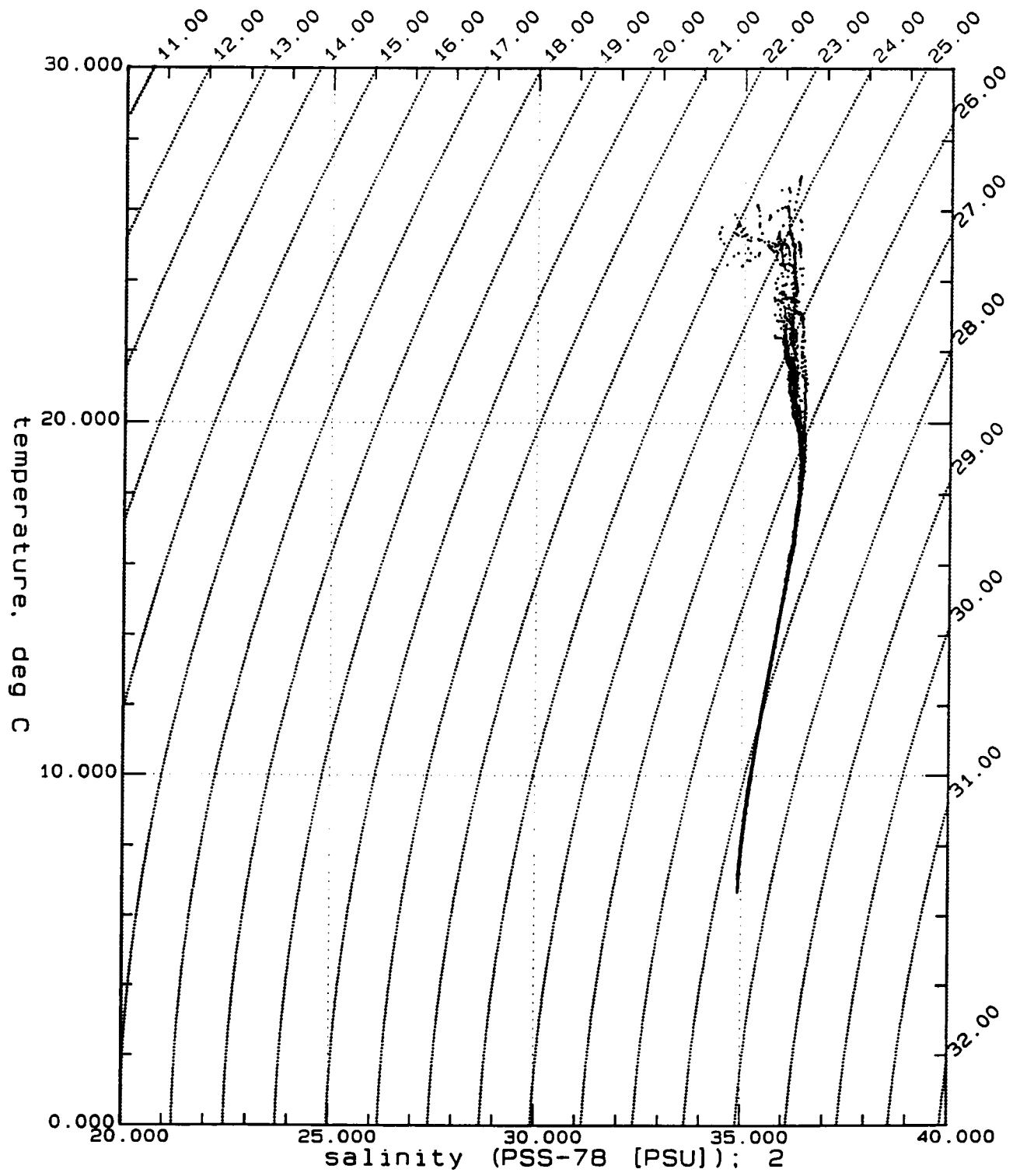
14-143.CNV: Gulfcet Cruise 05



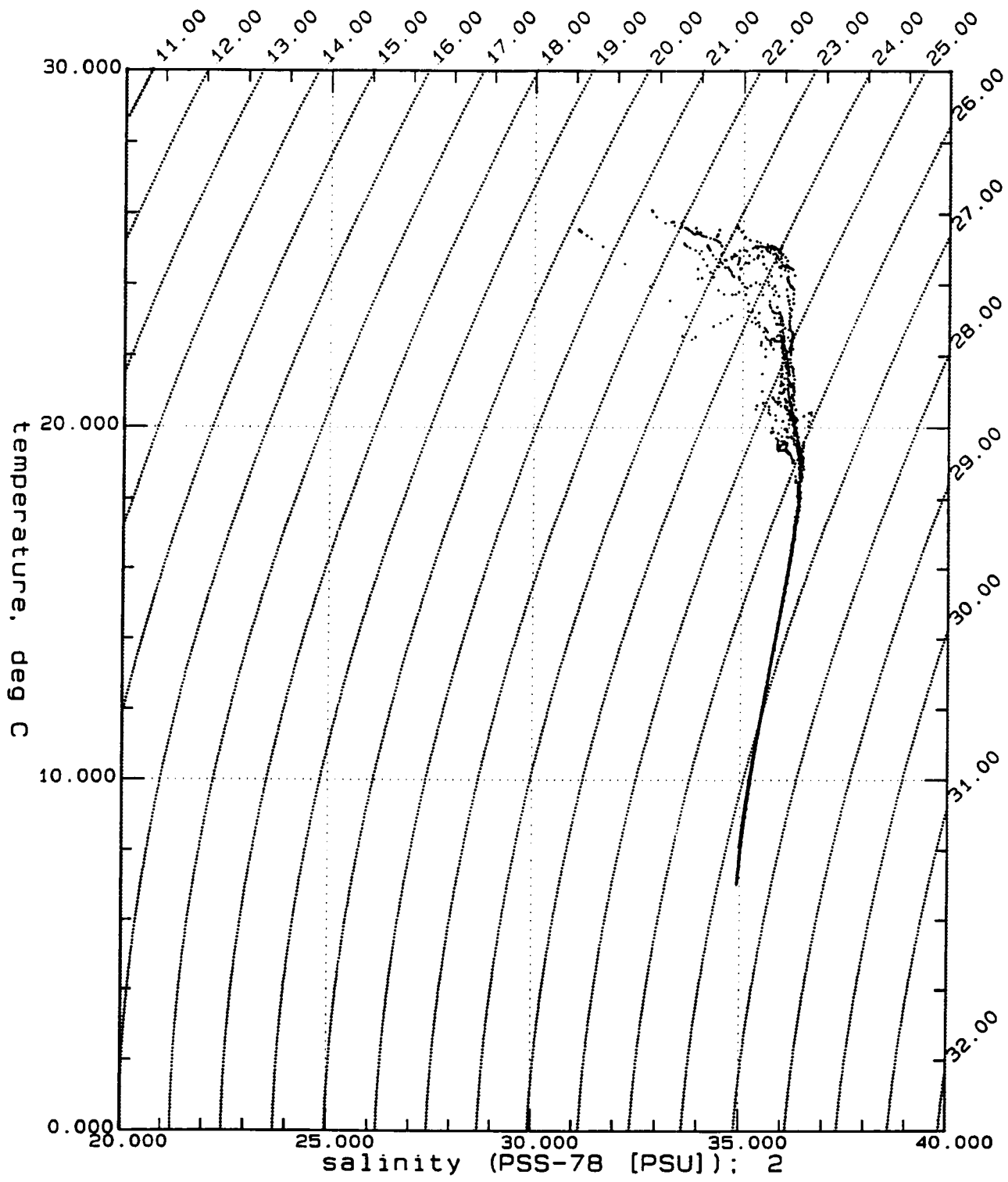
Gulfcet Cruise 05 - All Stations



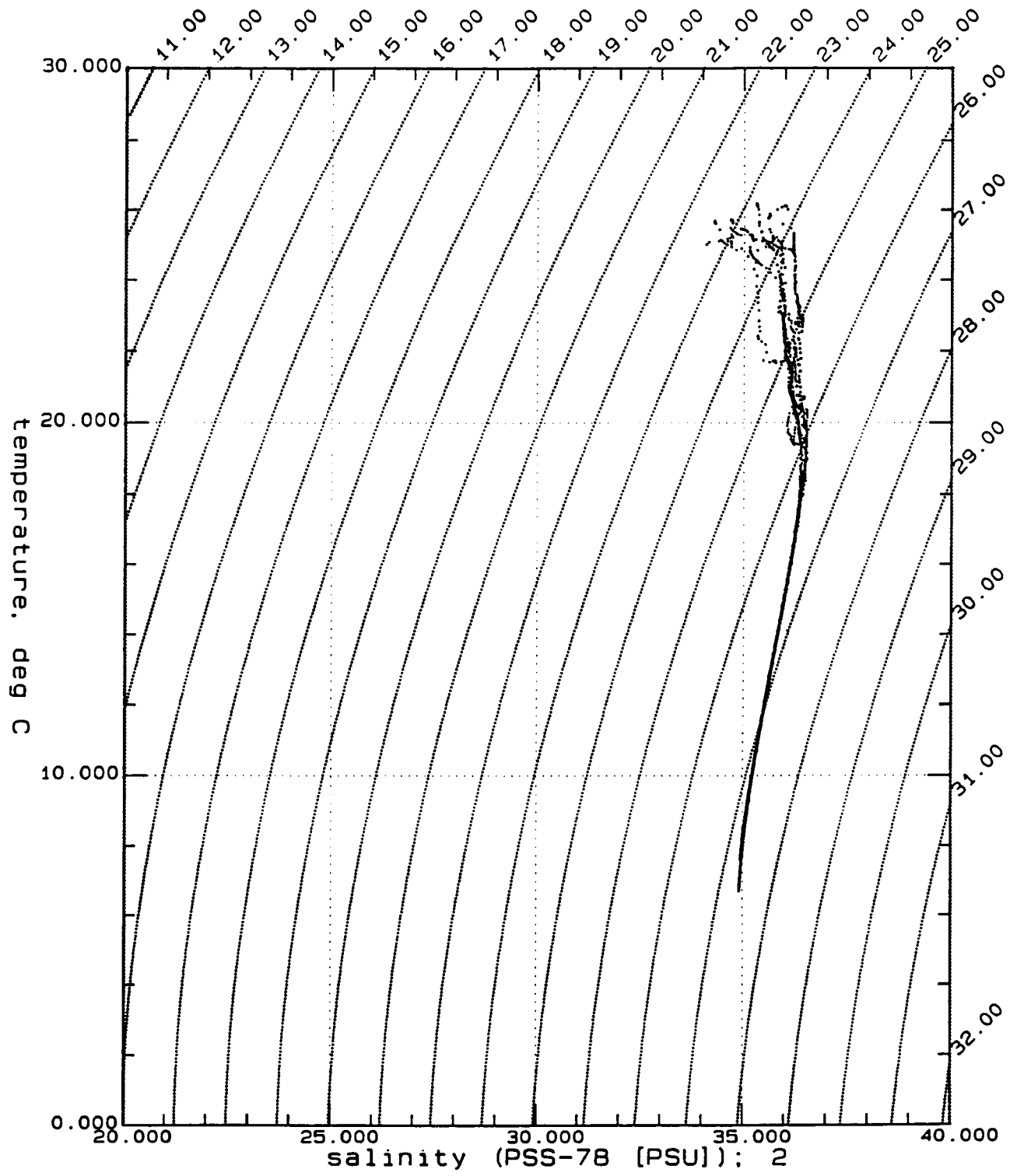
Gulfcet Cruise 05 - Inshore Stations



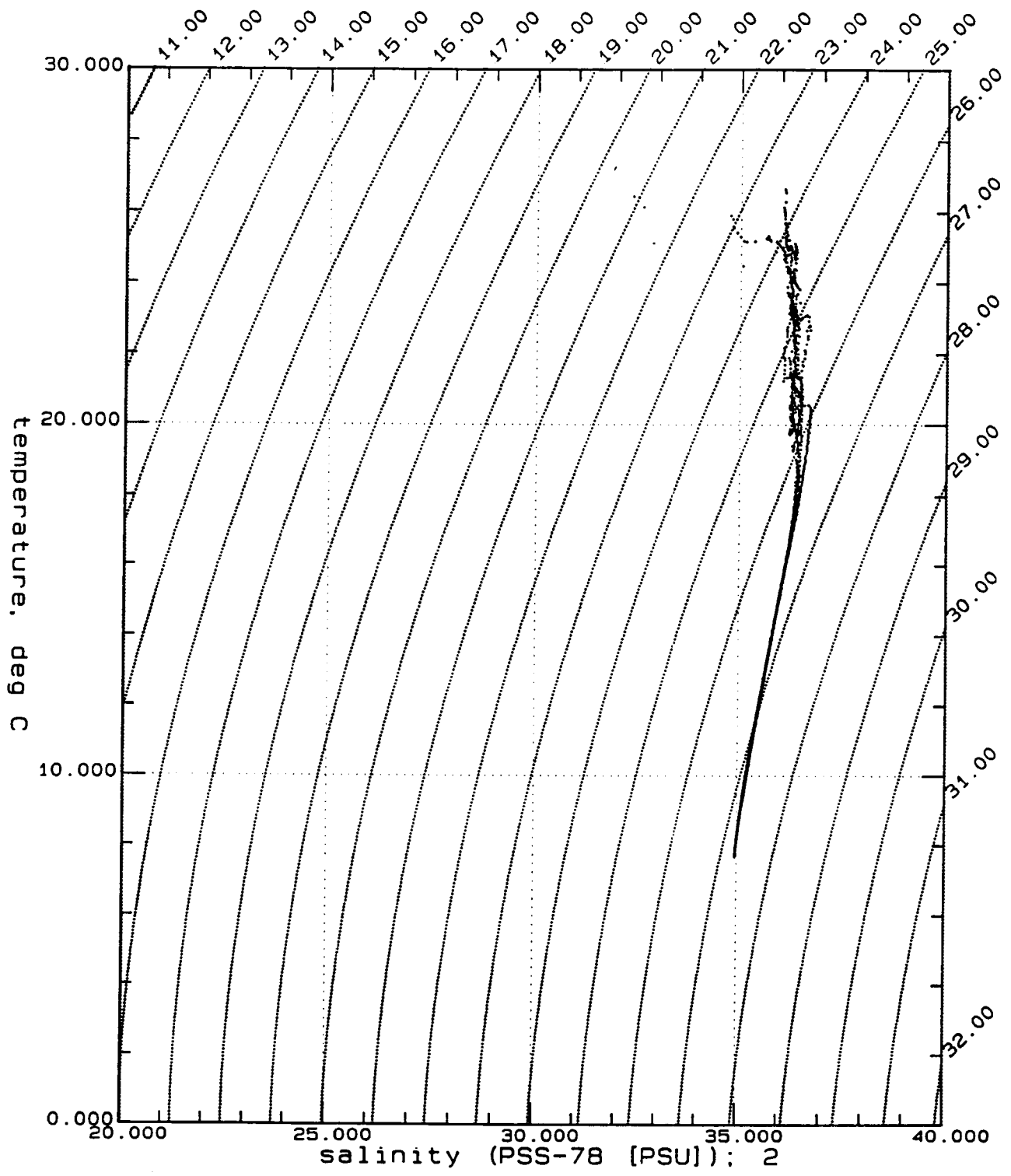
Gulfcet Cruise 05 - Offshore Stations



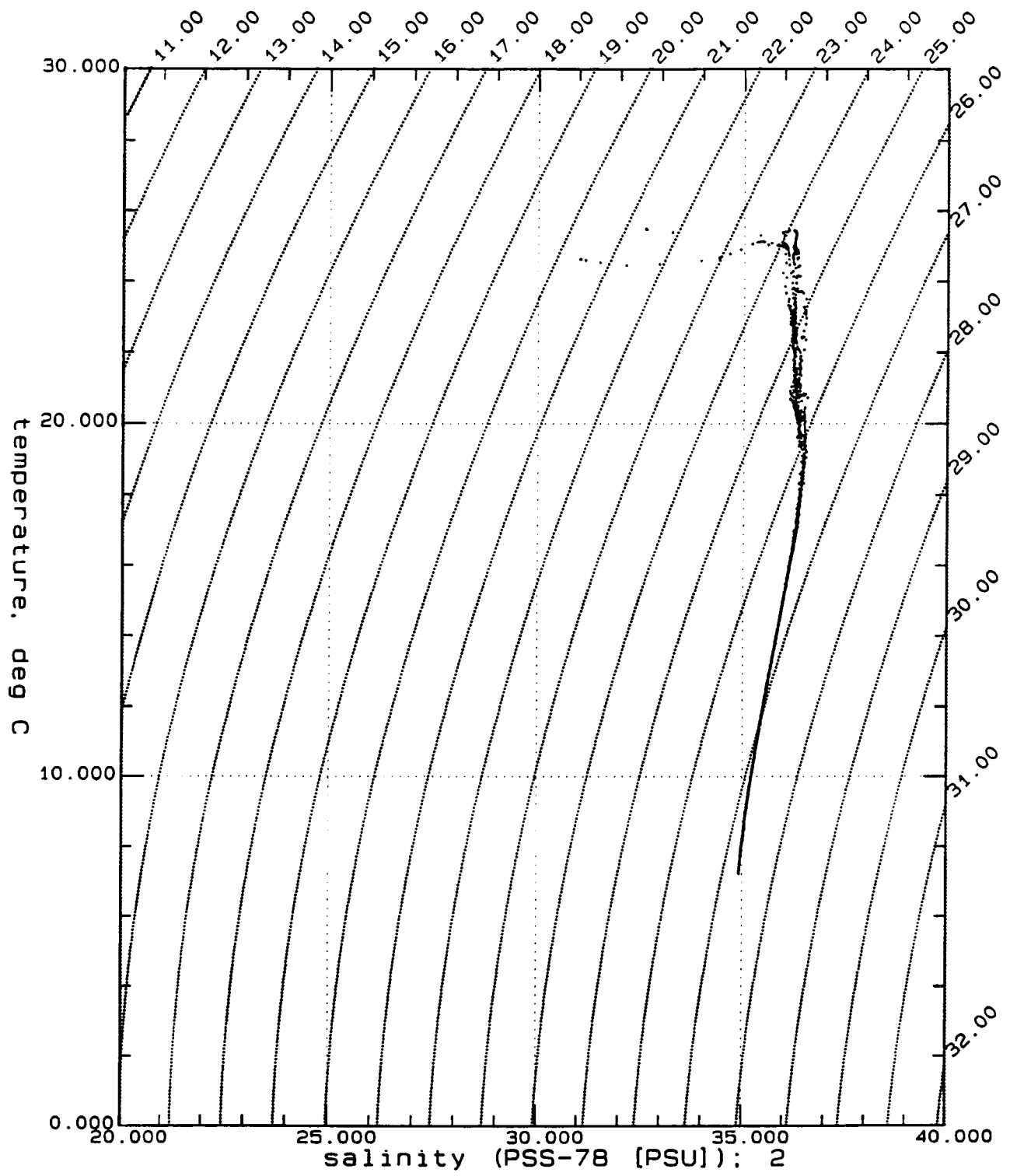
Gulfcet Cruise 05 - Lines 03 and 04



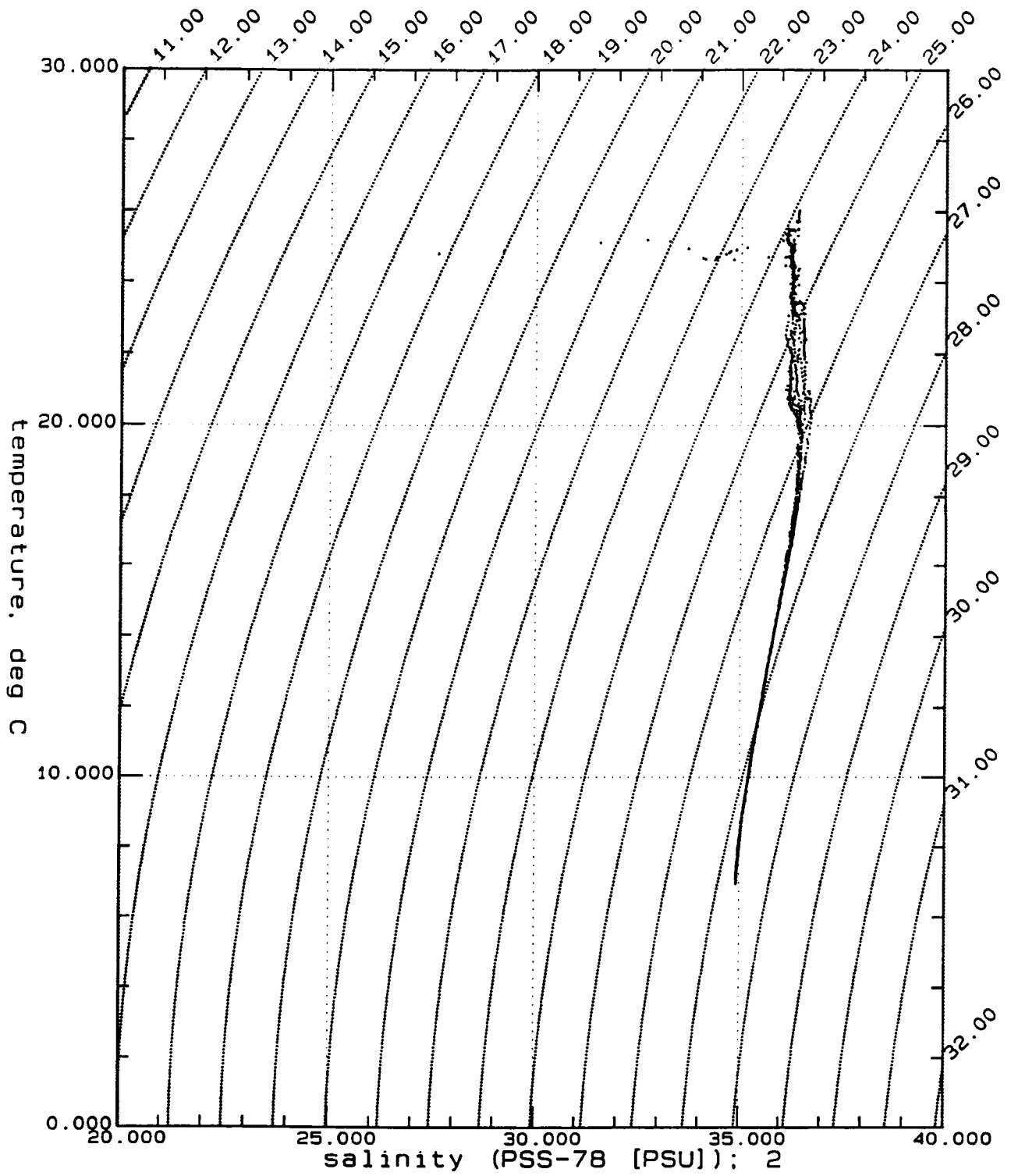
Gulfcet Cruise 05 - Lines 05 and 06



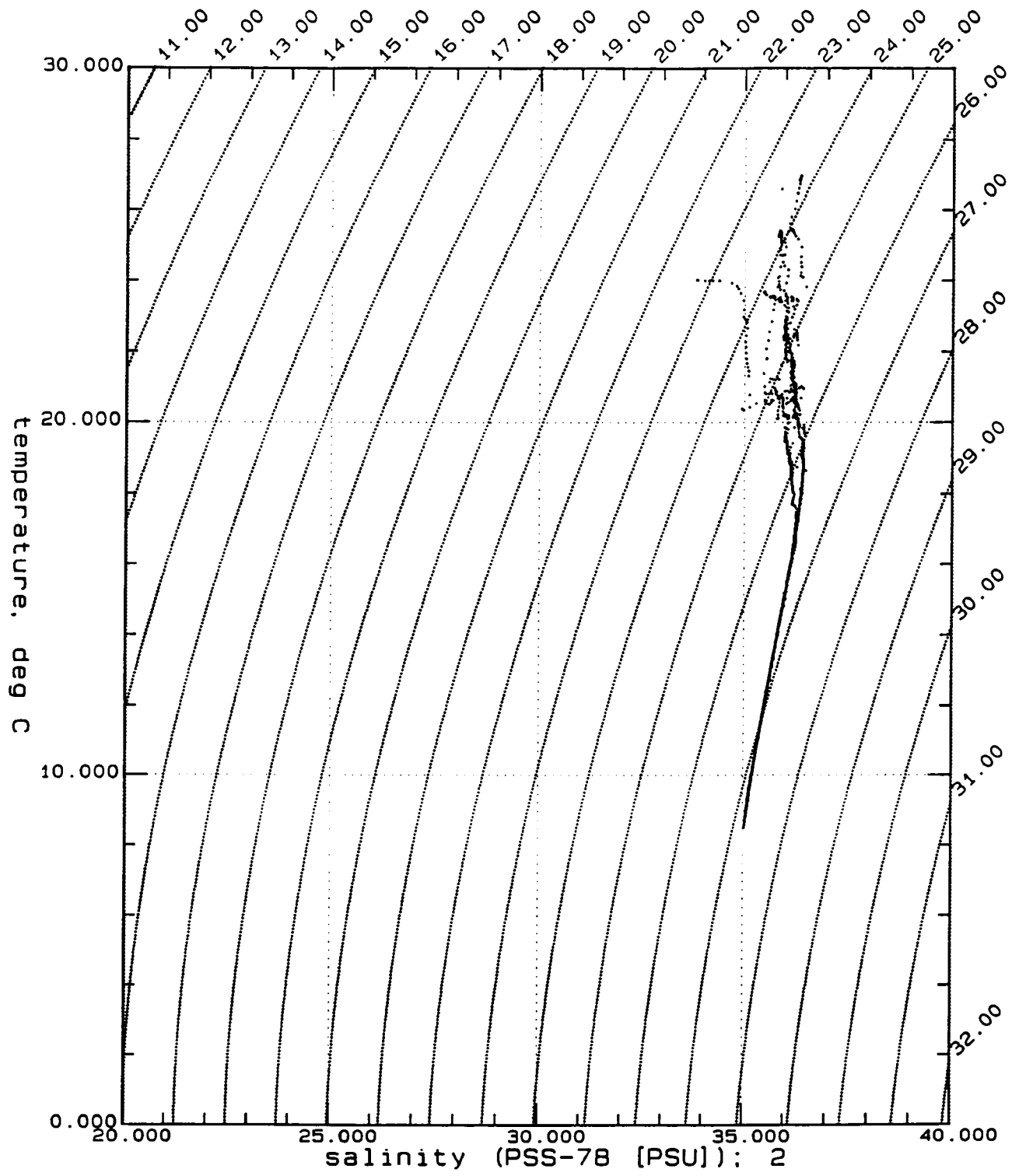
Gulfcet Cruise 05 - Lines 07 and 08



Gulfcet Cruise 05 - Lines 09 and 10

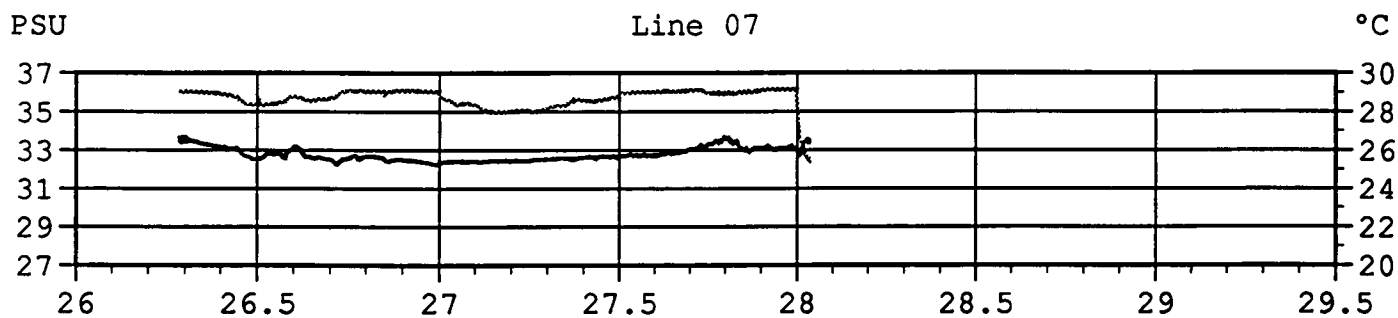
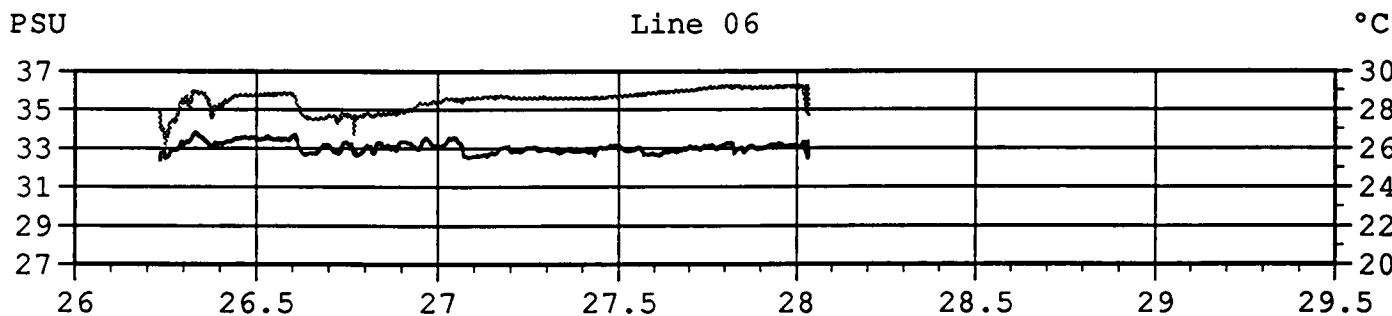
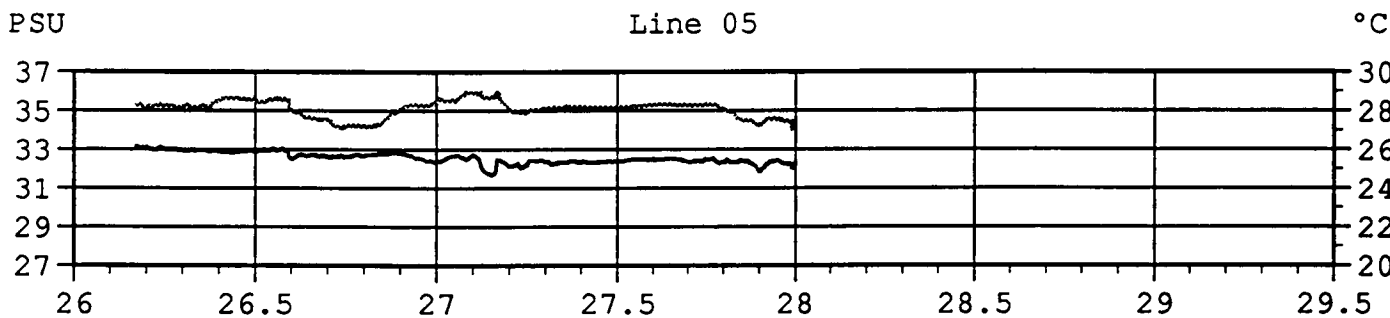
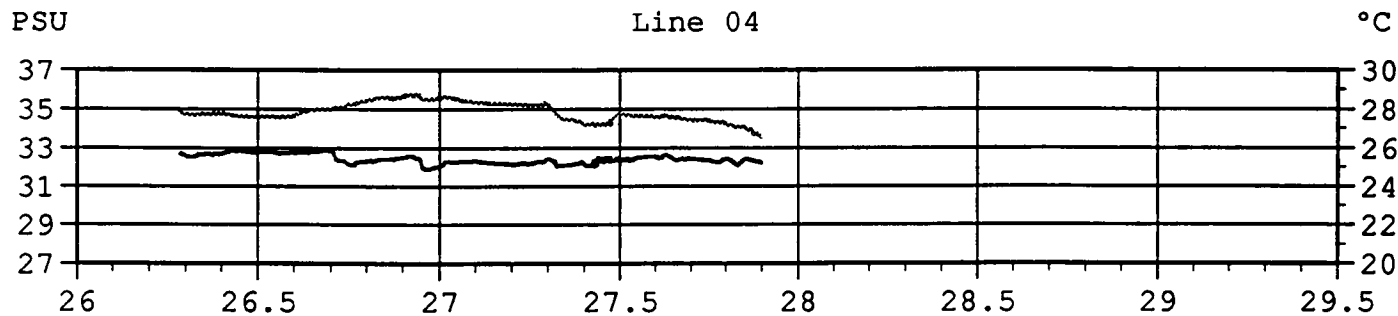
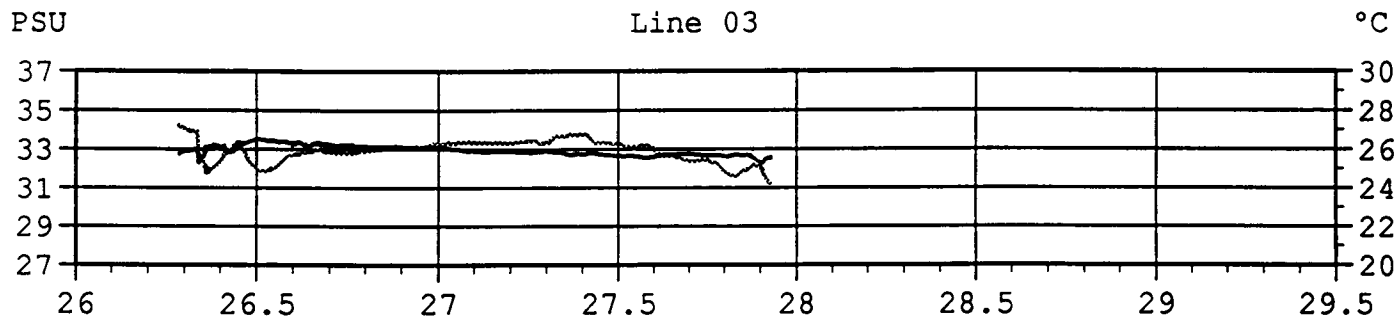


Gulfcet Cruise 05 - Lines 11 and 12



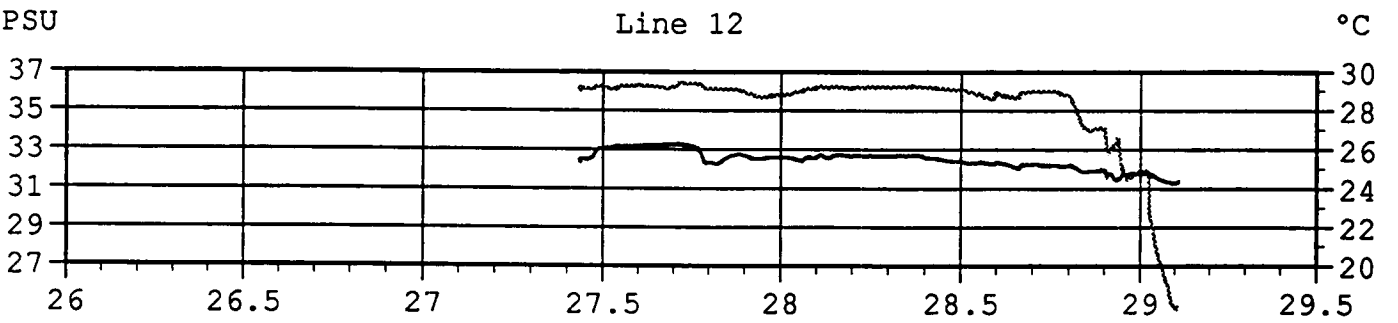
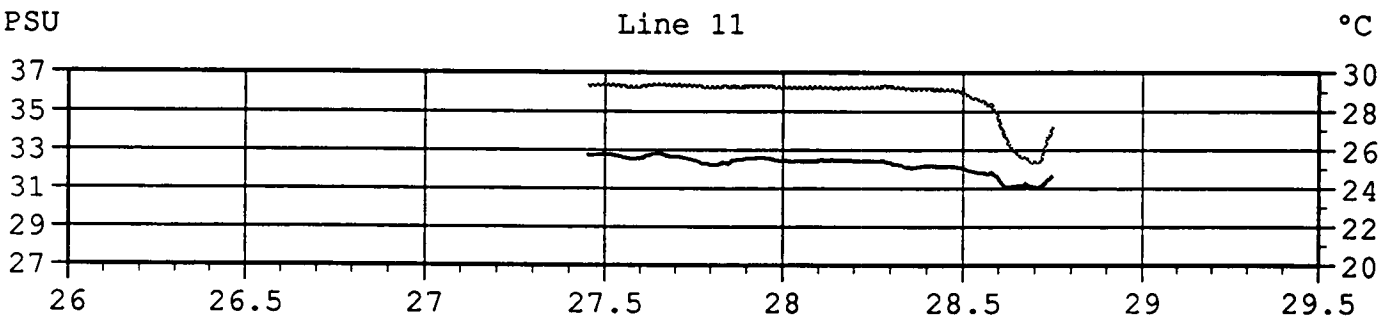
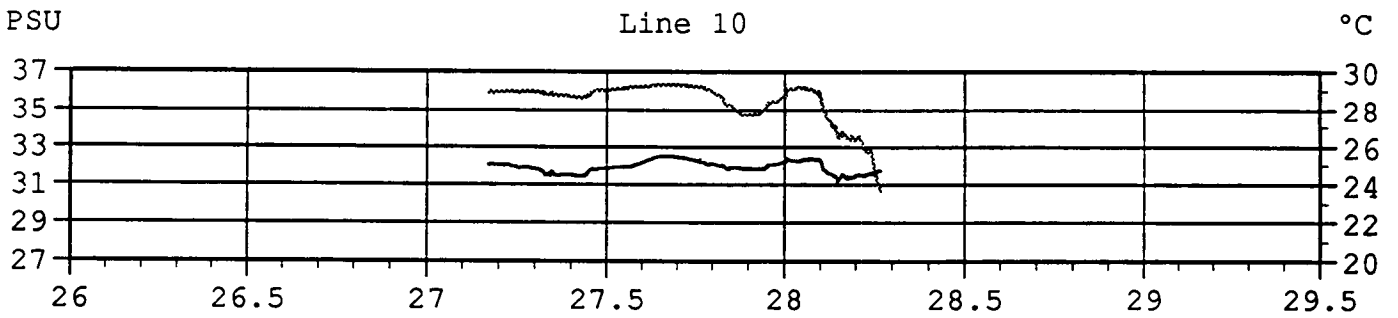
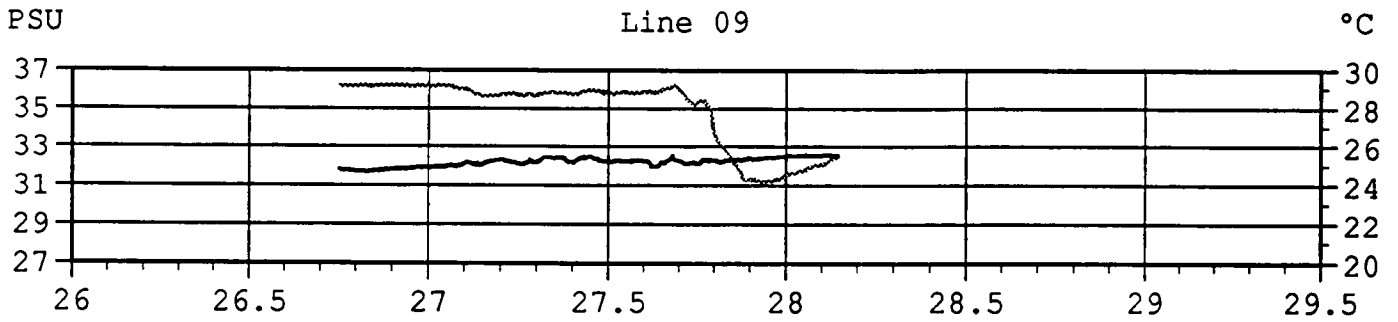
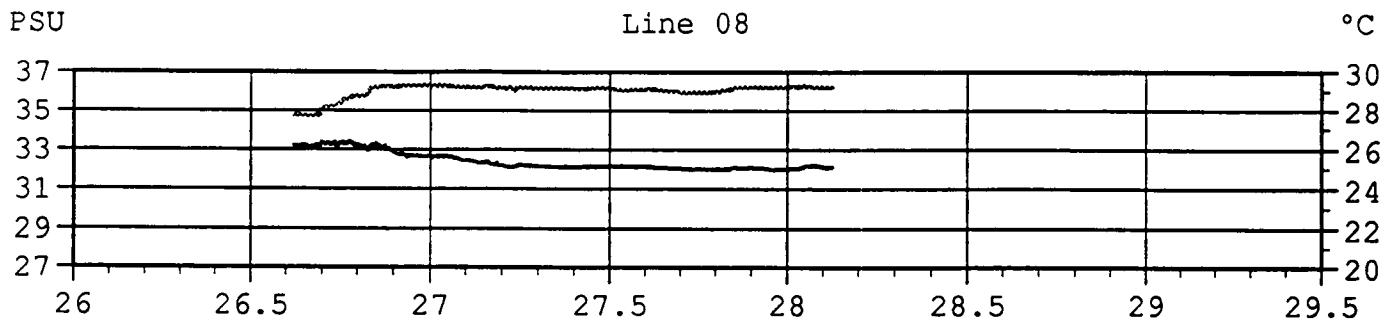
Gulfcet Cruise 05 - Lines 13 and 14

CONTINUOUSLY RECORDING DATA:
- PLOTS OF TEMPERATURE AND SALINITY



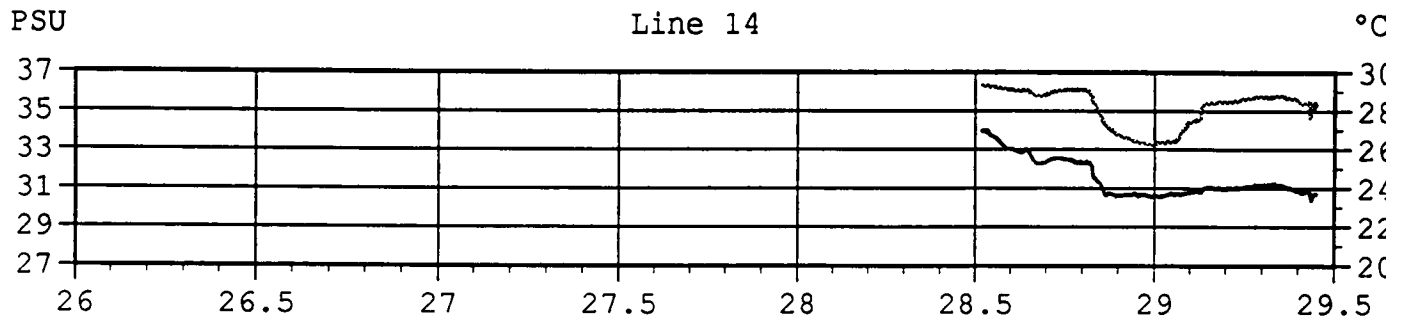
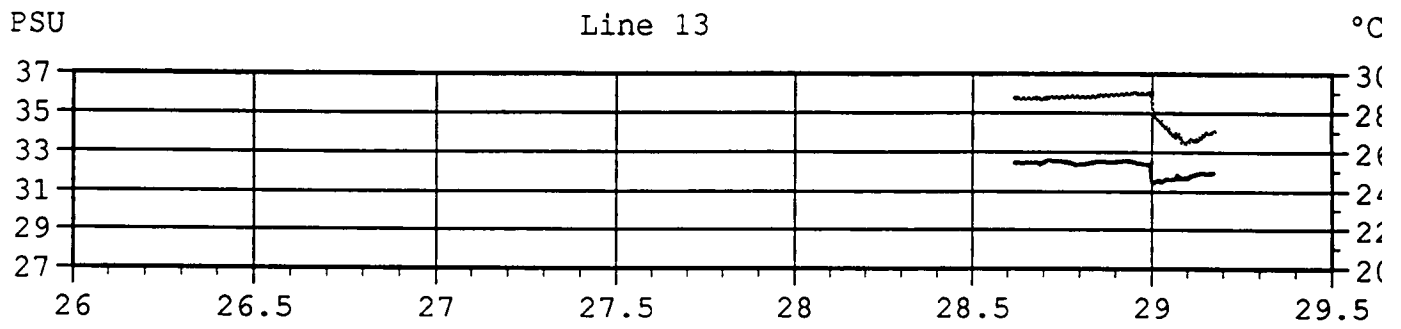
Salinity

Temperature



Salinity

Temperature



Salinity

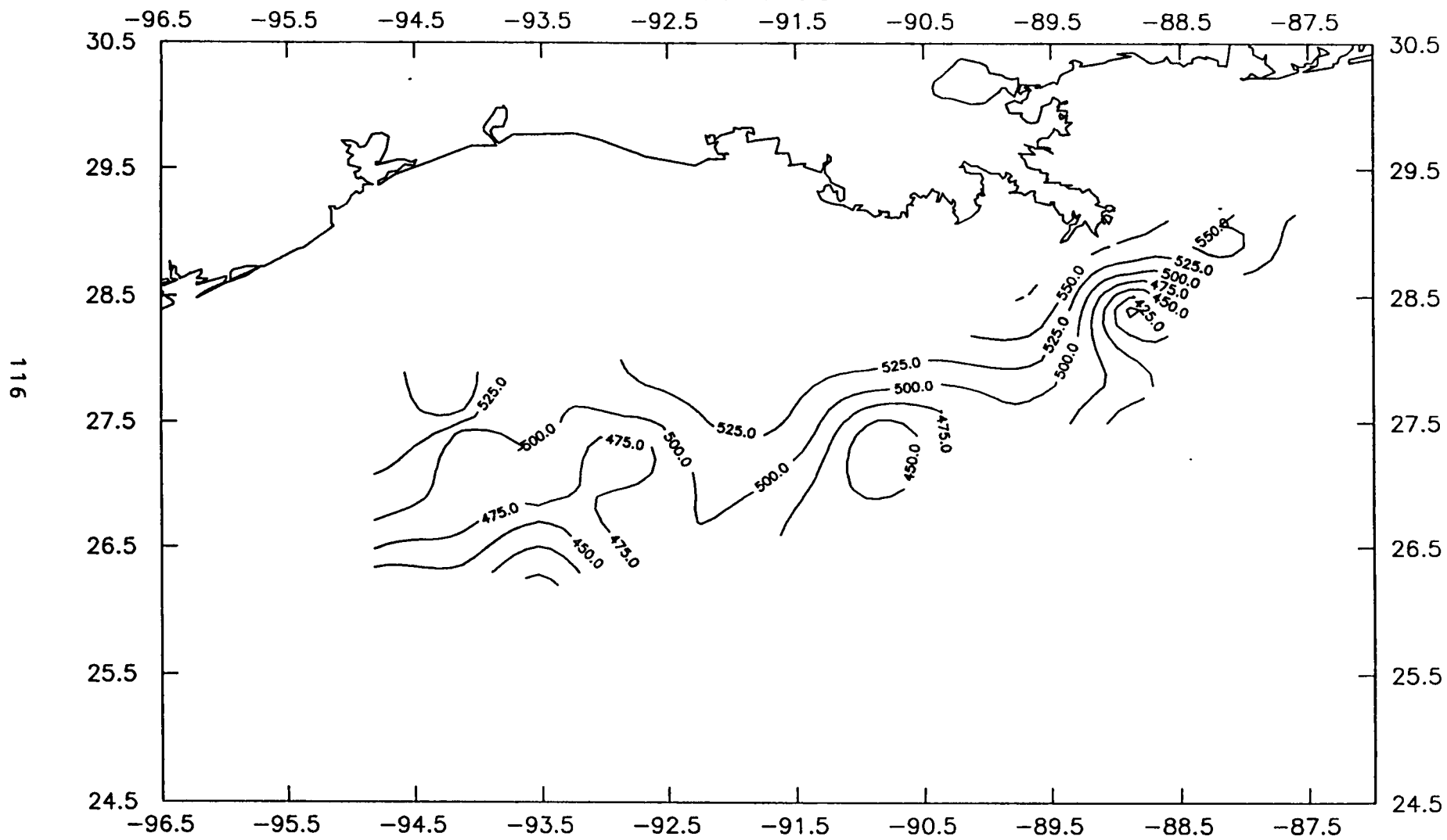
Temperature

TEMPERATURE DATA:

- 8°, 15°, AND 20° C ISOTHERM MAPS
- TEMPERATURE PROFILES BY TRACK LINE

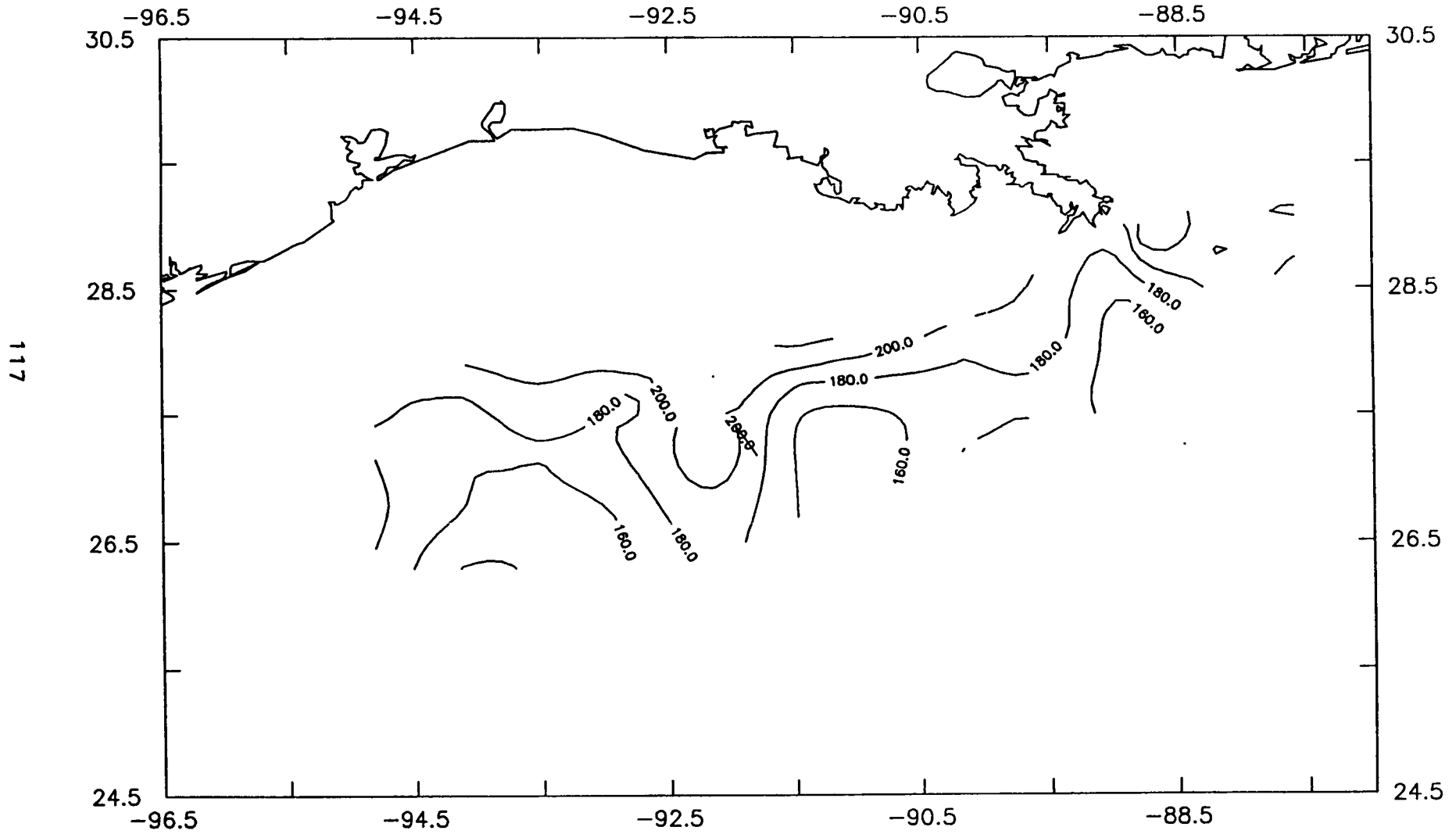
Depth of 8 °C Isotherm (m)

GulfCet 05



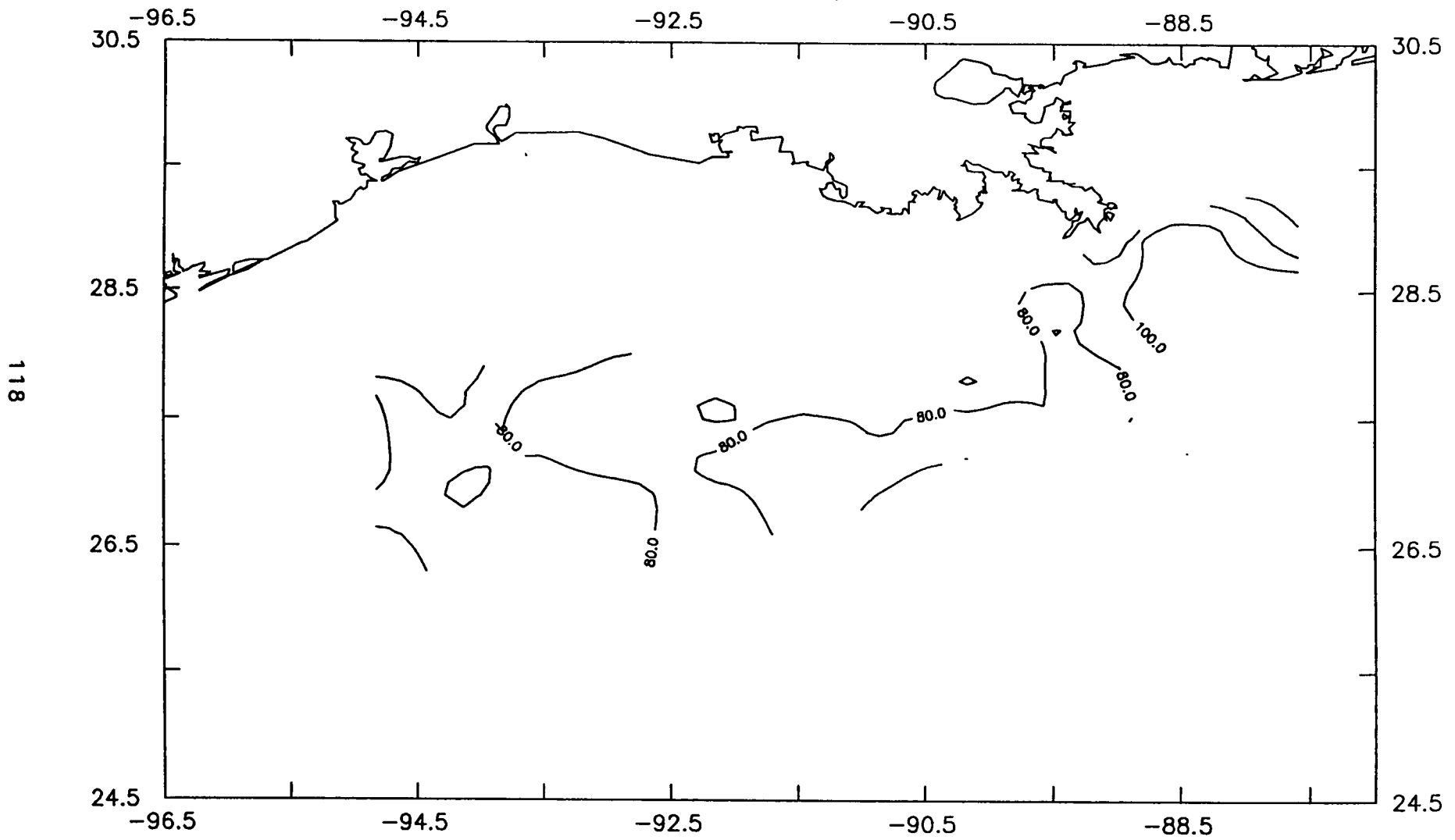
Depth of 15 °C Isotherm (m)

GulfCet 05



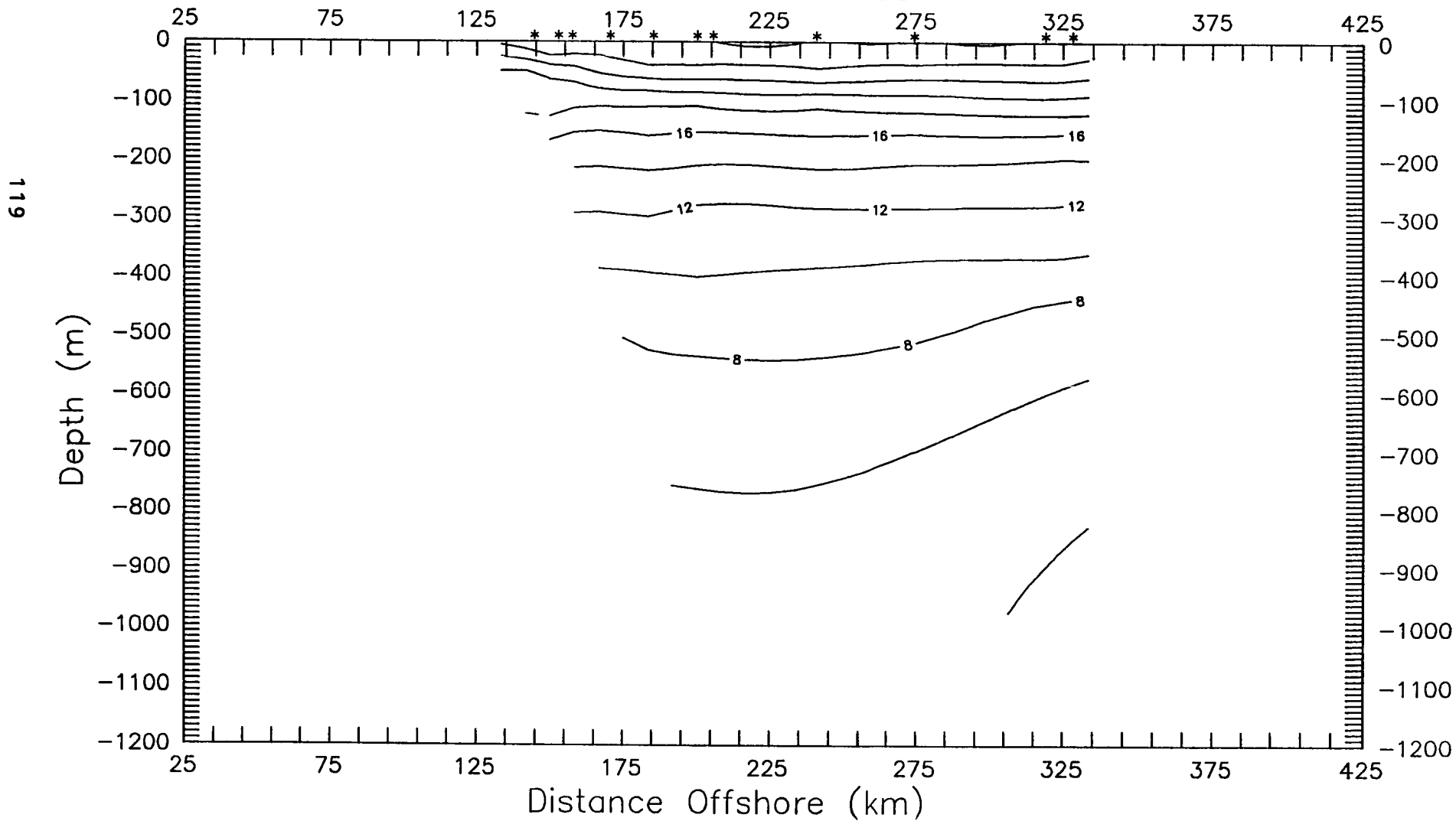
Depth of 20 °C Isotherm (m)

GulfCet 05



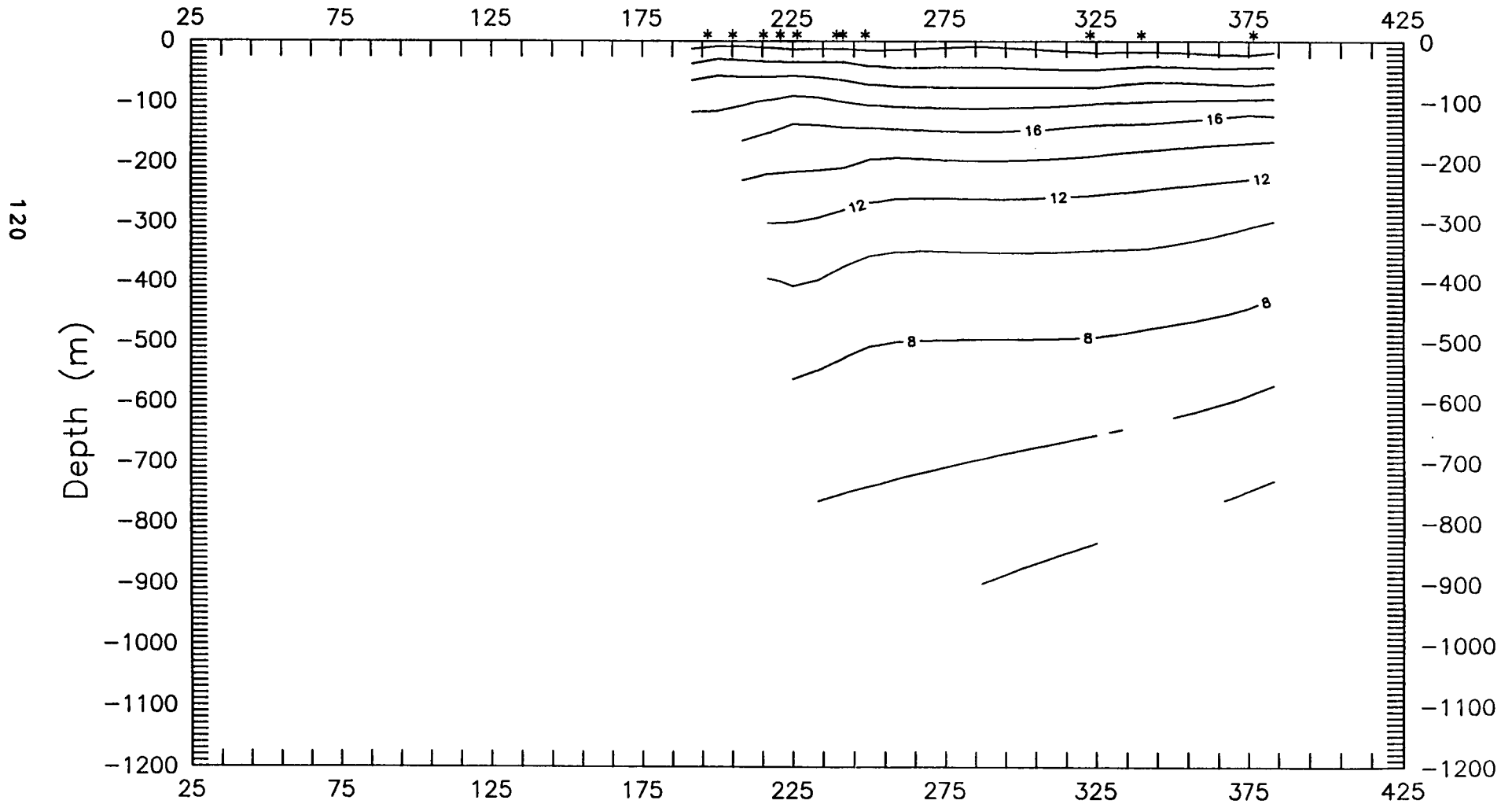
Temperature (°C)

GulfCet 05: Line 03



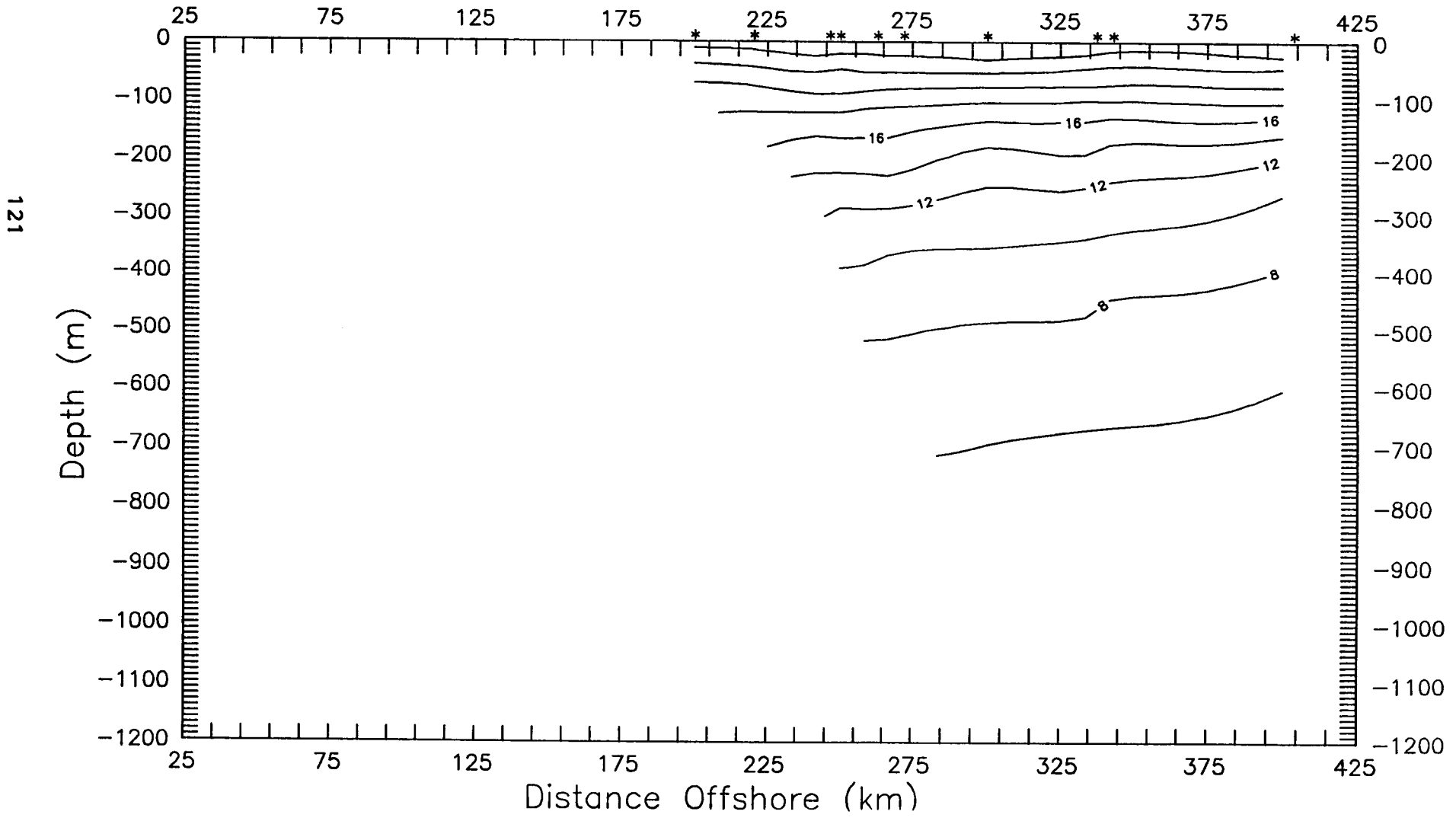
Temperature (°C)

GulfCet 05: Line 04



Temperature (°C)

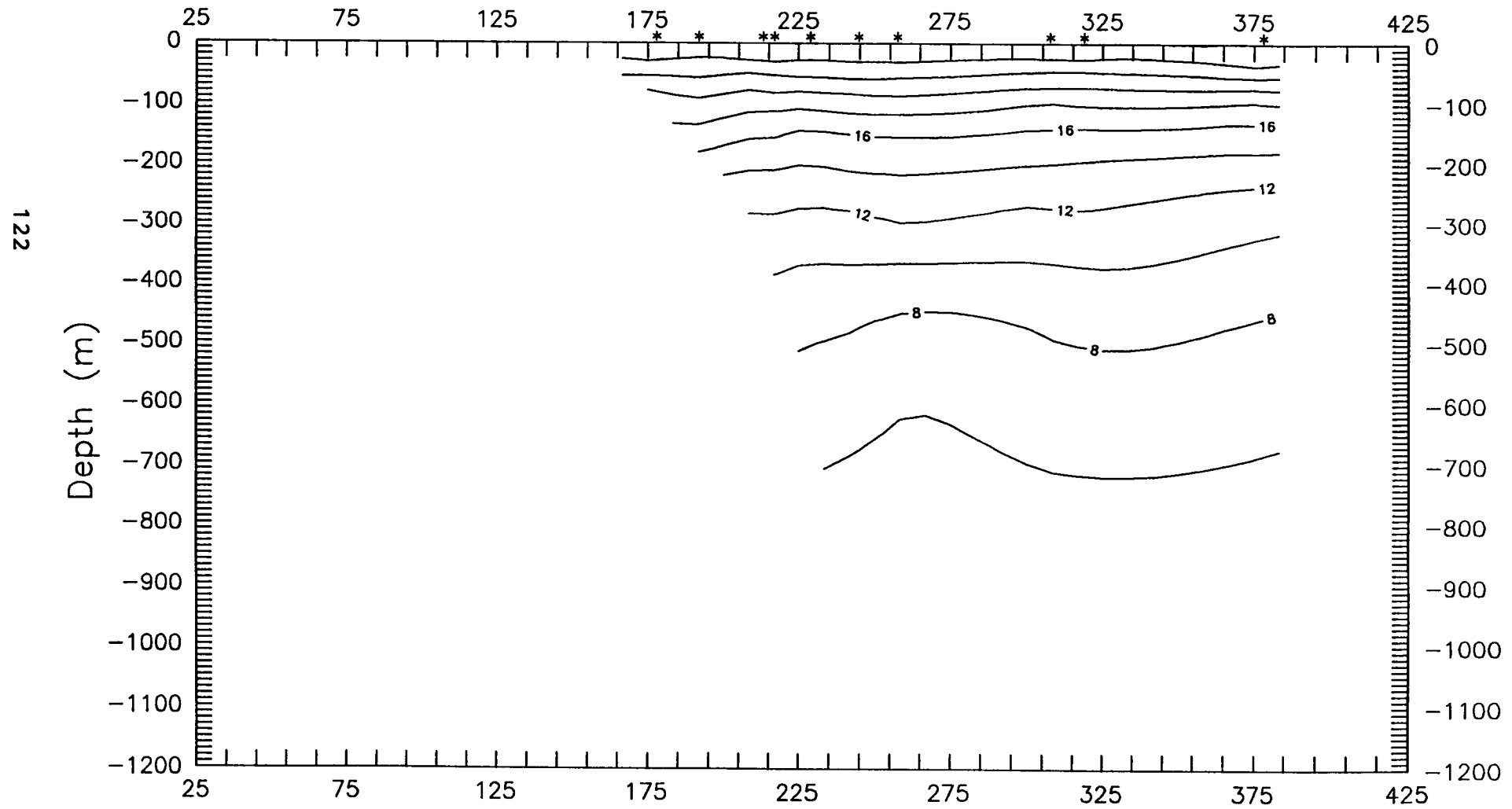
GulfCet 05: Line 05



121

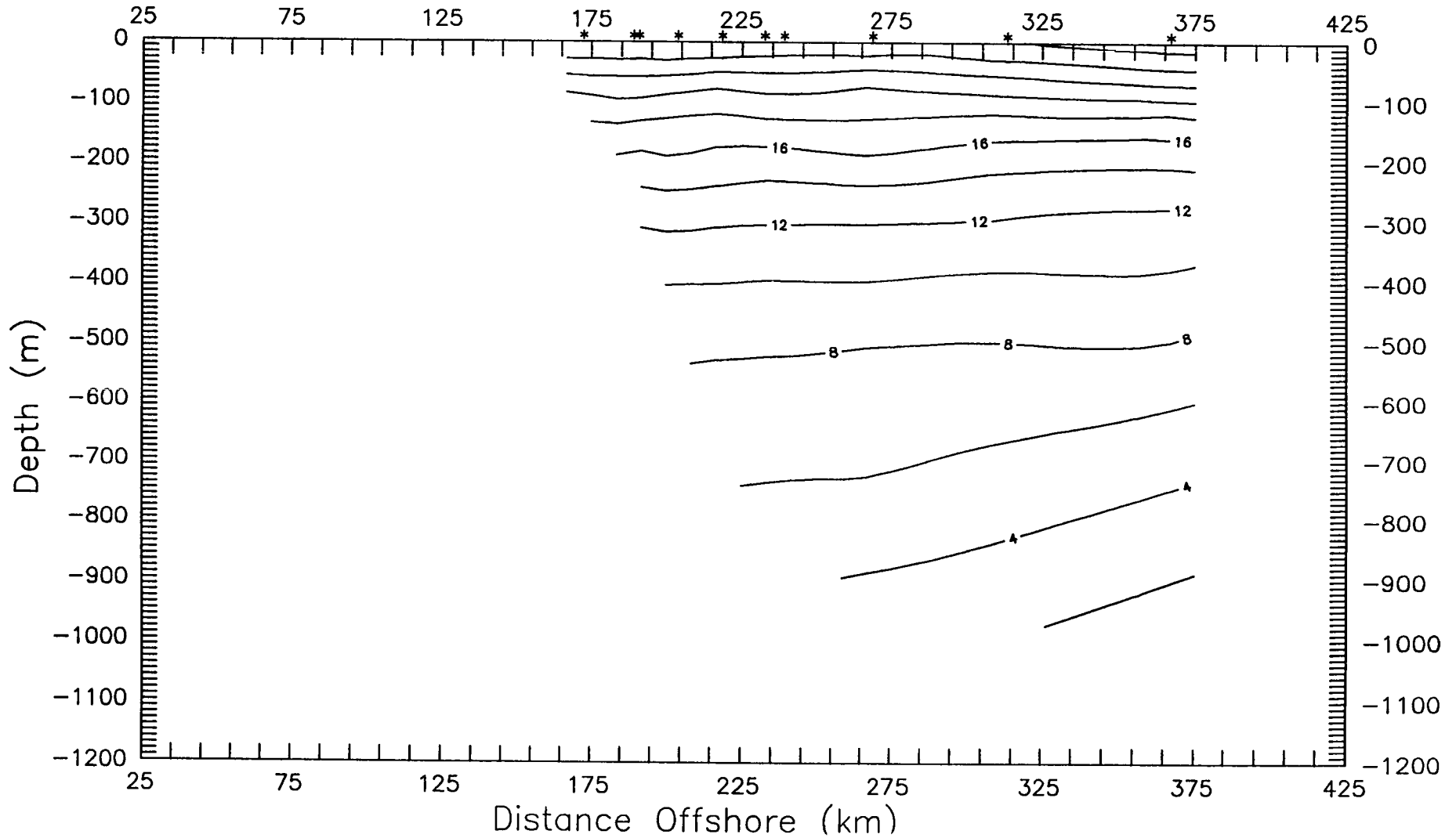
Temperature (°C)

GulfCet 05: Line 06



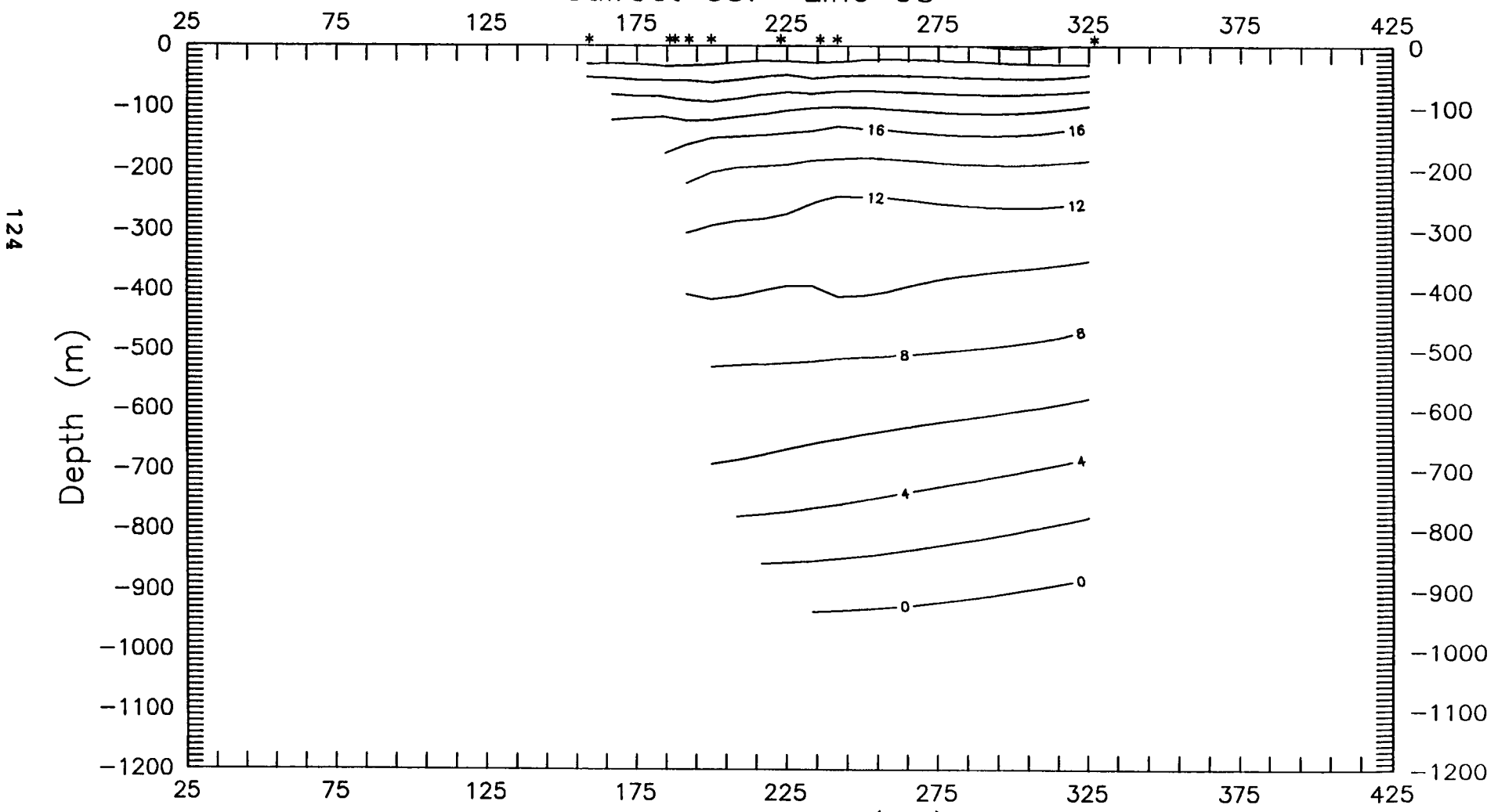
Temperature (°C)

GulfCet 05: Line 07



Temperature (°C)

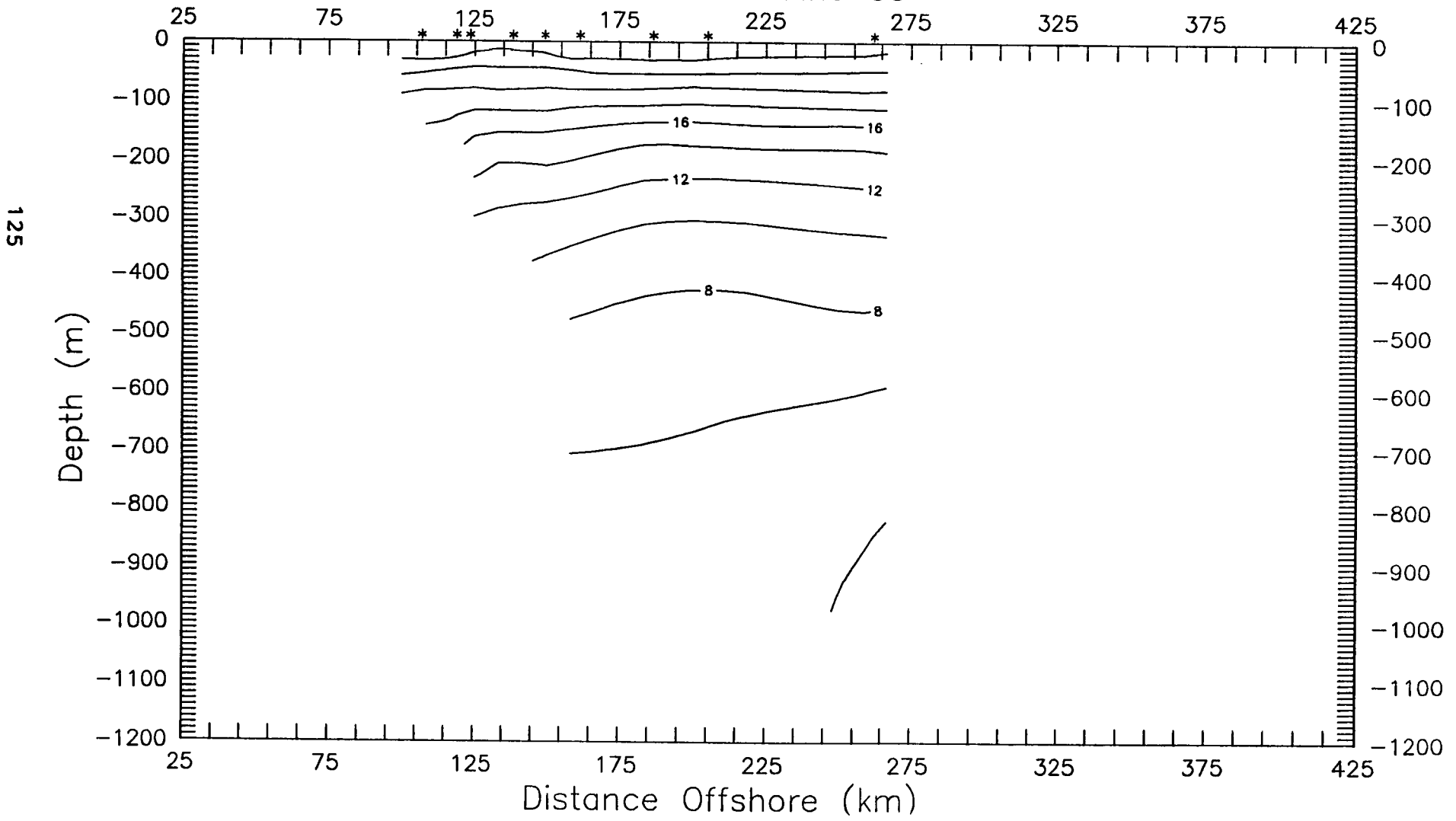
GulfCet 05: Line 08



124

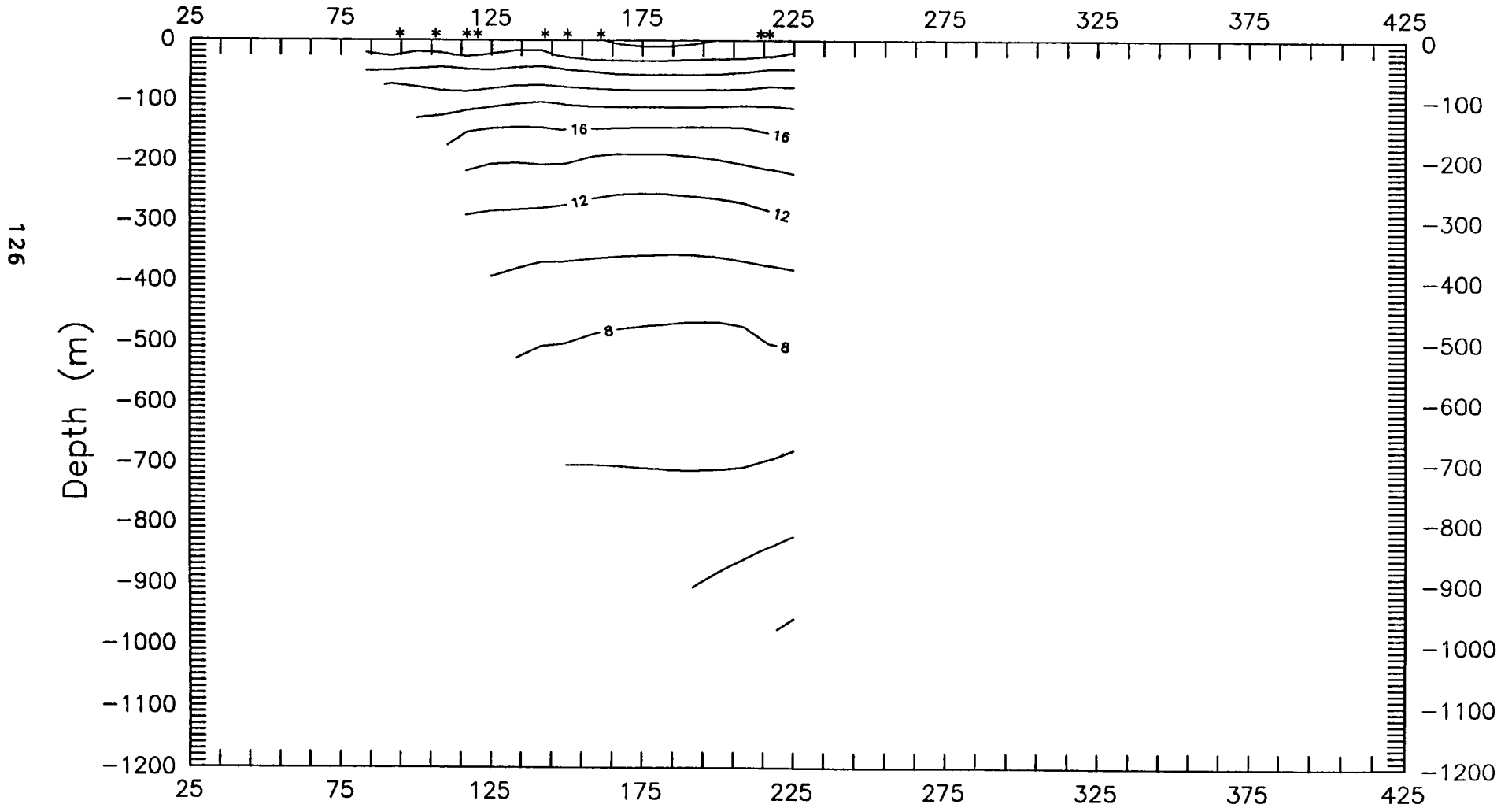
Temperature (°C)

GulfCet 05: Line 09



Temperature (°C)

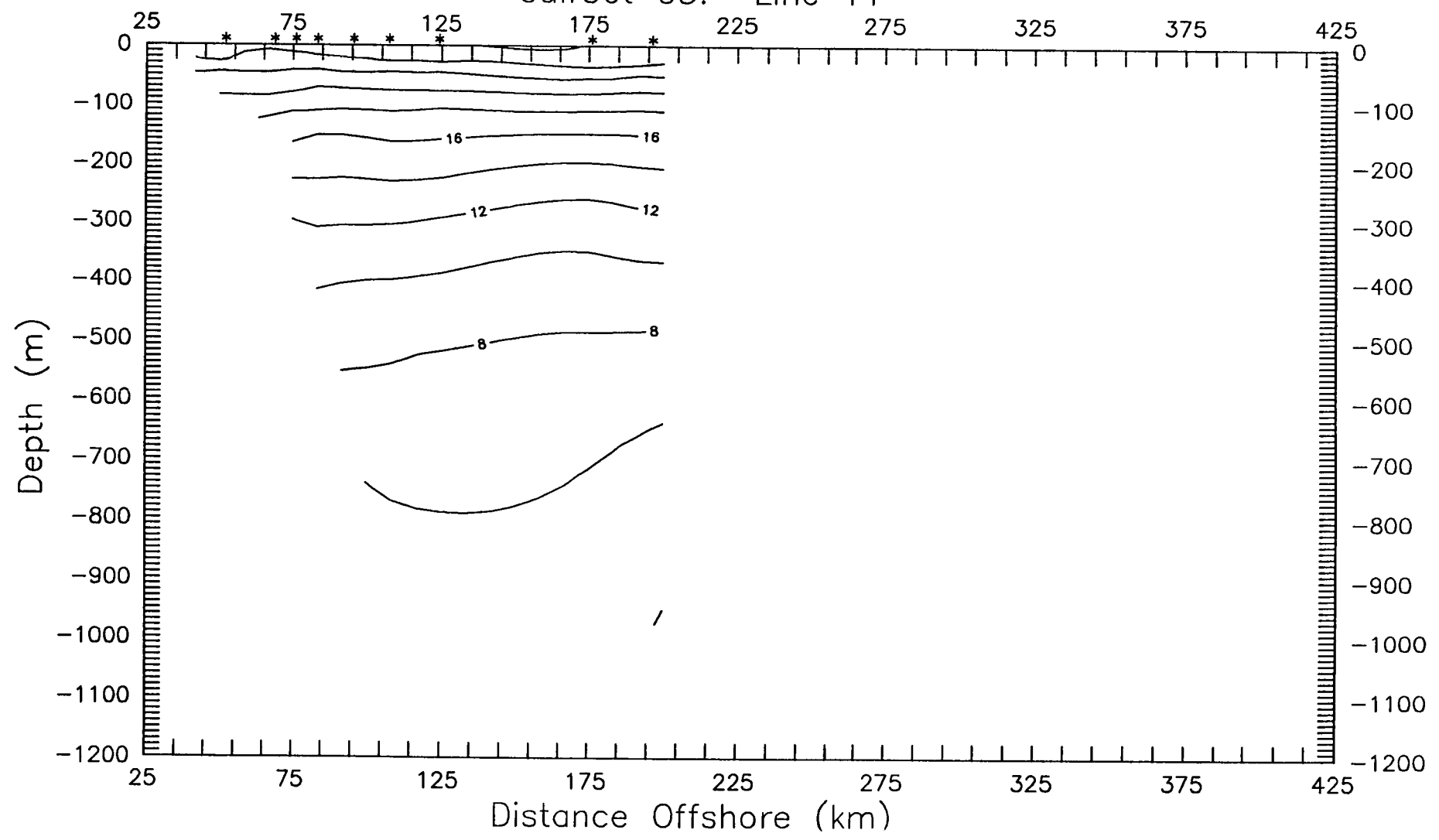
GulfCet 05: Line 10



Temperature (°C)

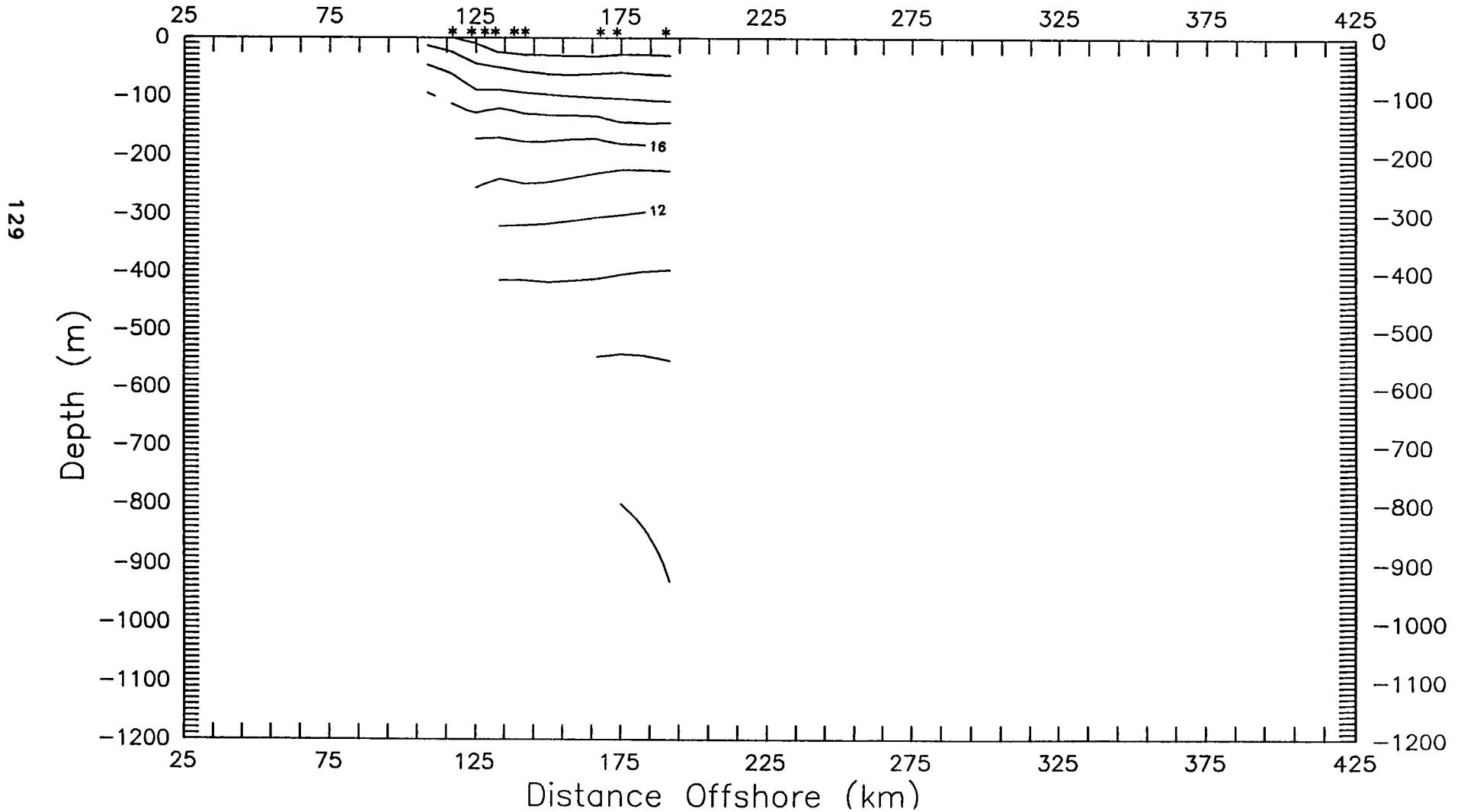
GulfCet 05: Line 11

127



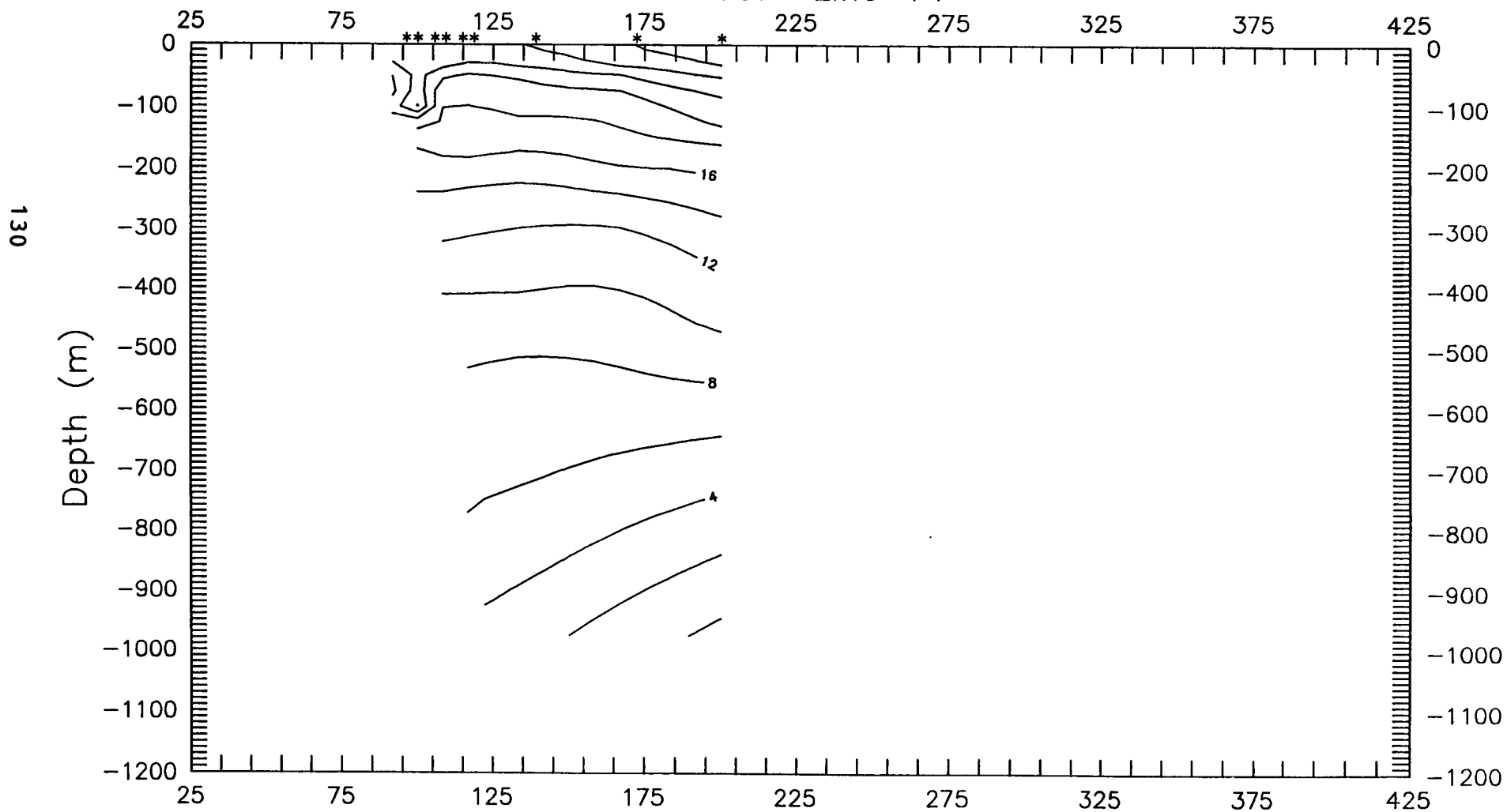
Temperature (°C)

GulfCet 05: Line 13



Temperature (°C)

GulfCet 05: Line 14



SALINITY DATA:

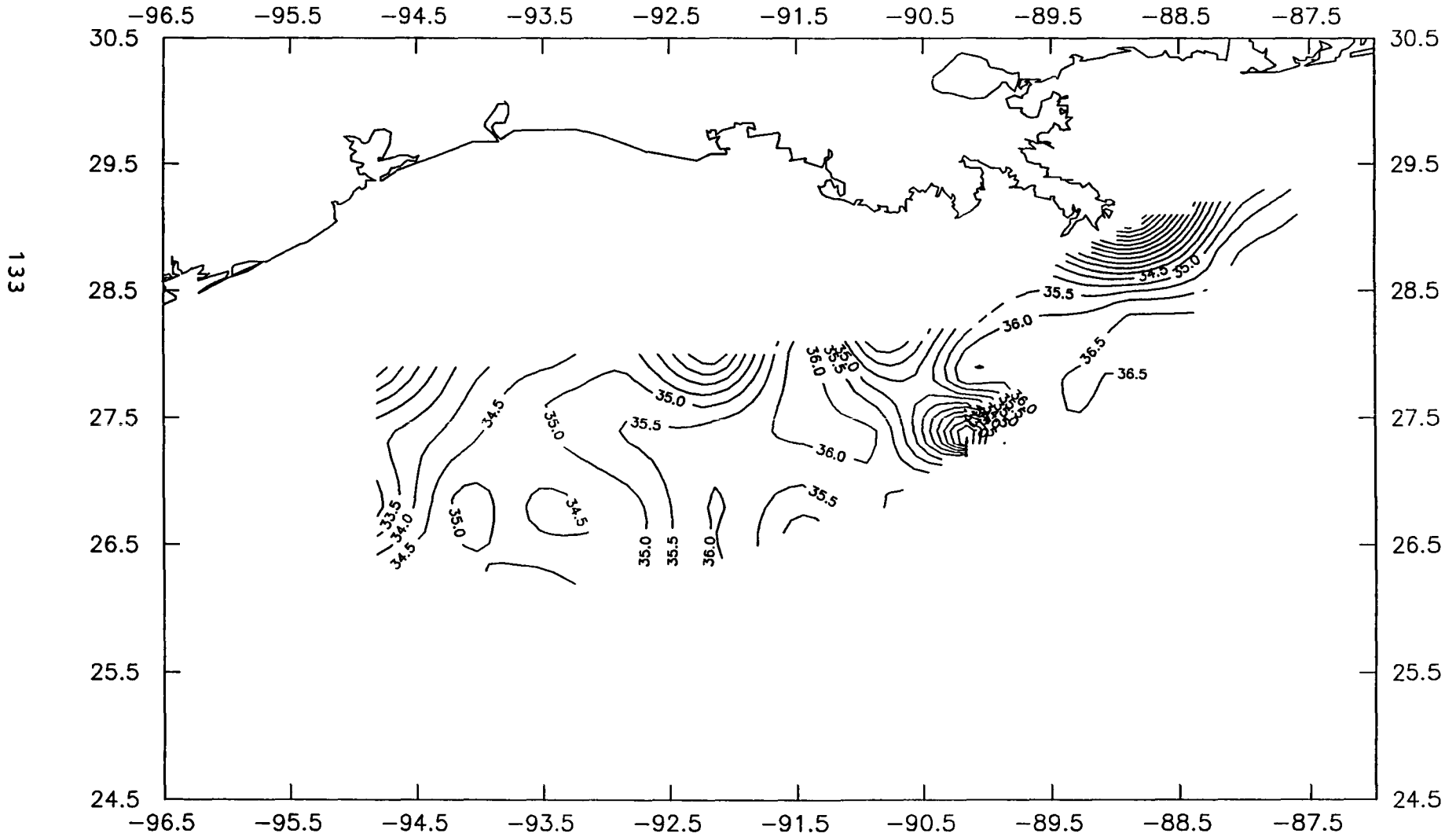
- DATA SUMMARY TABLE
- CTD SURFACE SALINITY MAP
- NISKIN SURFACE SALINITY MAP

Cruise 05 Salinity Data

Station	Depth (m)	Bottle Salinity	CTD Salinity	Difference Bottle-CTD	Station	Depth (m)	Bottle Salinity	CTD Salinity	Difference Bottle-CTD
03-021	0.0	31.0349	31.0600	-0.025	08-086	1.9	36.2083	36.1901	0.0182
03-021	36.8	35.6752	35.7086	-0.033	08-086	40.8	36.3473	36.3590	-0.0117
03-026	0.0	33.3498	33.2600	0.090	09-087	0.0	32.8211	32.6000	0.2211
03-026	60.9	36.1188	36.1311	-0.012	09-087	90.1	35.8563	36.3297	-0.4734
03-029	2.0	32.8726	32.7915	0.081	09-093	0.0	35.9581	35.9300	0.0281
03-029	56.6	36.1650	36.1818	-0.017	09-093	78.1	36.4571	36.4741	-0.0170
03-030	1.2	34.3088	34.4170	-0.108	09-096	75.6	36.2515	36.2664	-0.0149
03-030	80.6	36.1573	36.1556	0.002	10-097	2.2	35.9817	35.7834	0.1983
04-031	1.6	34.8649	34.8164	0.049	10-097	68.3	36.3790	36.3980	-0.0190
04-031	68.6	36.1779	36.1967	-0.019	10-100	55.7	36.1584	36.1387	0.0197
04-033	1.3	35.2753	35.2900	-0.015	10-100	1.5	36.2299	36.2417	-0.0118
04-033	68.2	36.1852	36.2078	-0.023	10-105	2.156	25.5517	31.0694	-5.5177
04-042	1.2	33.6168	33.5700	0.047	10-105	83.164	36.3139	36.3259	-0.0120
04-042	59.6	36.0120	35.9890	0.023	11-106	1.68	34.2574	34.3676	-0.1102
05-043	2.9	34.4245	34.3677	0.057	11-106	43.4	36.3859	36.3815	0.0044
05-043	69.2	36.0559	36.0391	0.017	11-112	64	36.3086	36.5687	-0.2601
05-047	1.4	35.1665	34.8851	0.281	11-112	1.92	36.2746	36.2103	0.0644
05-047	75.8	36.2453	36.2573	-0.012	11-115	75.7	36.4850	36.3517	0.1333
05-050	1.9	34.2992	34.2733	0.026	11-115	2.047	36.3320	36.3390	-0.0070
05-050	79.2	36.2795	36.3129	-0.033	12-116	66.33	36.4526	36.4205	0.0321
05-053	1.3	35.2885	35.2804	0.008	12-116	1.222	36.0552	36.0787	-0.0235
05-053	69.9	36.2652	36.2348	0.030	12-119	501.89	34.9300	34.9014	0.0285
06-054	1.3	34.5756	34.8200	-0.244	12-119	75.68	36.5234	36.5338	-0.0104
06-054	55.0	36.3314	36.1874	0.144	12-119	1.47	36.1540	36.1364	0.0176
06-055	0.8	34.7034	34.6934	0.010	12-125	88.23	36.3749	36.3878	-0.0129
06-055	60.3	36.1628	36.1515	0.011	12-125	44	36.2050	36.2230	-0.0179
06-059	1.0	35.5992	35.5555	0.044	12-125	1.5	26.6190	28.3770	-1.7579
06-059	69.7	36.3666	36.3676	-0.0010	13-126	1.3	34.8817	33.8107	1.0711
06-064	0.8	34.8567	34.6857	0.1710	13-126	16.111	34.9365	34.9636	-0.0271
06-064	81.2	36.1925	36.1959	-0.0034	13-126	88.55	36.1449	36.1467	-0.0017
07-065	1.8	32.5444	32.5798	-0.0354	13-133	0.738	36.0998		
07-065	73.8	36.4661	36.4442	0.0219	13-133	60.73	35.8786	36.0933	-0.2146
07-071	0.8	35.5911	35.6592	-0.0681	13-133	75.079	36.1518	36.1464	0.0054
07-071	71.6	36.4073	36.4187	-0.0114	13-134	1.902	35.8076	35.8217	-0.0141
07-073	2.0	36.0640	36.0554	0.0086	13-134	67.022	36.1208	36.2128	-0.0920
07-073	83.3	36.2736	36.2746	-0.0010	13-134	87.788	36.2388	36.2360	0.0028
07-075	2.2	36.0542	36.0527	0.0015	14-135	499	35.1730	35.1329	0.0401
07-075	85.4	36.2665	36.2920	-0.0255	14-135	98.06	36.1512	36.1621	-0.0108
08-076	2.8	34.7789	34.7719	0.0070	14-135	1.5	36.3375	35.8702	0.4673
08-076	61.3	36.4633	36.4735	-0.0102	14-136	500.1	35.0367	35.0114	0.0253
08-080	46.9	36.1147	36.6496	-0.5349	14-136	80.52	36.0041	36.0151	-0.0110
08-080	2.2	36.6259	36.1096	0.5163	14-136	2.75	36.1299	36.0994	0.0305

CTD Surface Salinity (PSU)

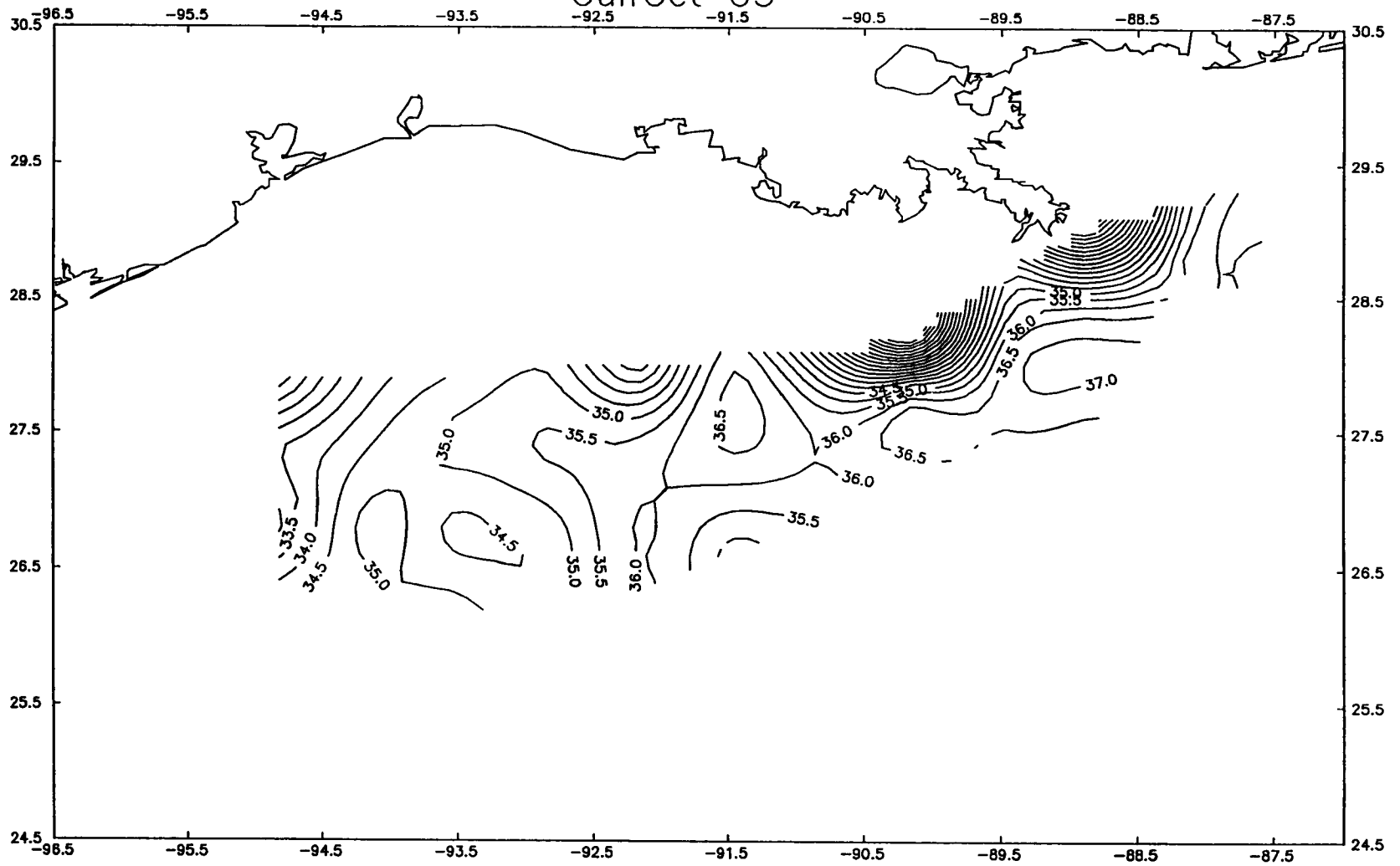
GulfCet 05



Niskin Bottle Surface Salinity (PSU)

GulfCet_05

134



APPENDIX A:
STATION POSITIONS

Table 1. Cruise 05 XBT Stations and Probe Types

XBT Station	Date	Start Time	Latitude	Longitude	Probe Type	XBT Station	Date	Start Time	Latitude	Longitude	Probe Type
03-Ex3	6/02/93	1309	26°21.87	94°52.70	T-7	09-088	5/28/93	2116	28°02.43	90°49.99	T-10
03-022	6/02/93	0350	27°51.5	94°49.93	T-10	09-089	5/28/93	2056	28°00.03	90°50.05	T-7
03-023	6/02/93	0328	27°49.00	94°50.01	T-7	09-090	5/28/93	1947	27°52.01	90°50.06	T-7
03-024	6/02/93	0129	27°42.00	94°50.00	T-7	09-091	5/28/93	1856	27°45.96	90°50.03	T-7
03-025	6/02/93	0124	27°34.00	94°50.03	T-7	09-092	5/28/93	1801	27°39.48	90°50.03	T-20
03-027	6/02/93	2328	27°23.23	94°50.00	T-20	09-094	5/28/93	1348	27°16.00	90°50.00	T-20
03-028*	6/02/93	2040	27°35.00	94°50.00	T-20	10-098	5/28/93	0332	27°11.50	90°09.85	T-20
04-Ex2	6/01/93	1805	27°31.00	94°13.00	T-7	10-099	5/27/93	2341	27°40.35	90°09.92	T-20
04-032	6/02/93	0416	26°37.00	94°10.06	T-20	10-101	5/27/93	2151	27°49.98	90°09.88	T-7
04-037*	6/01/93	1845	27°30.67	94°09.99	T-20	10-102	5/27/93	2016	28°01.57	90°10.03	T-7
04-038	6/01/93	1623	27°38.07	94°09.99	T-7	10-103	5/27/93	1957	28°03.94	90°10.09	T-7
04-039	6/01/93	1557	27°40.98	94°10.00	T-7	10-104	5/27/93	1903	28°09.38	90°09.77	T-10
04-040	6/01/93	1531	27°44.02	94°10.03	T-7	11-107	5/27/93	0844	28°35.96	89°29.95	T-10
04-041	6/01/93	1445	27°49.50	94°09.99	T-10	11-108	5/27/93	0810	28°32.00	89°30.05	T-7
05-044	6/01/93	0817	27°49.00	93°30.01	T-10	11-109	5/27/93	0738	28°27.79	89°30.28	T-7
05-045	6/01/93	0617	27°35.00	93°30.01	T-7	11-110	5/27/93	0648	28°21.51	89°30.44	T-7
05-046	6/01/93	0600	27°33.00	93°29.99	T-7	11-111	5/27/93	0555	28°14.98	89°30.01	T-20
05-048	6/01/93	0341	27°21.01	93°29.90	T-7	11-113	5/27/93	0018	27°37.91	89°30.23	T-20
05-049	6/01/93	0141	27°06.00	93°29.98	T-20	12-118	5/26/93	1645	28°14.51	88°50.08	T-20
05-051	5/31/93	2158	26°42.99	93°30.00	T-20	12-Ex1	5/26/93	1645	27°32.00	88°50.00	T-7
06-056	5/31/93	0613	26°52.00	92°49.96	T-20	12-120	5/26/93	1645	28°43.46	88°50.01	T-20
06-058	5/31/93	0233	27°19.04	92°50.00	T-20	12-121	5/26/93	1645	28°46.99	88°50.00	T-7
06-060	5/30/93	2355	27°34.50	92°50.00	T-7	12-122	5/26/93	1645	28°52.97	88°49.93	T-7
06-061	5/30/93	2259	27°41.00	92°50.00	T-7	12-123	5/26/93	1645	28°55.48	88°49.83	T-7
06-062	5/30/93	2245	24°42.82	92°50.00	T-7	12-124	5/26/93	1645	29°00.01	88°49.97	T-10
06-063	5/30/93	2100	27°54.50	92°50.00	T-10	13-127	5/25/93	2119	29°13.01	88°10.13	T-10
07-066	5/30/93	1421	27°53.00	92°10.00	T-10	13-128	5/25/93	2055	29°10.47	88°09.96	T-7
07-067	5/30/93	1413	27°51.99	92°10.00	T-7	13-129*	5/25/93	2037	29°08.51	88°10.01	T-7
07-068	5/30/93	1312	27°45.00	92°10.00	T-7	13-130	5/25/93	2003	29°04.95	88°10.00	T-7
07-069	5/30/93	1150	27°37.02	92°10.03	T-7	13-131	5/25/93	1911	29°02.95	88°09.96	T-20
07-070	5/30/93	1052	27°30.50	92°10.12	T-20	13-132	5/25/93	1711	29°49.00	88°10.00	T-20
07-072	5/30/93	0350	27°09.99	92°09.97	T-20	14-137	5/25/93	0319	29°03.88	87°29.84	T-20
08-079	5/29/93	0912	27°23.00	91°30.00	T-20	14-138	5/25/93	0147	29°15.02	87°29.99	T-20
08-081	5/29/93	0721	27°33.00	91°30.08	T-20	14-139	5/25/93	0130	29°16.96	87°30.04	T-7
08-082	5/29/93	0541	27°45.51	91°30.00	T-7	14-140	5/25/93	0107	29°20.00	87°30.00	T-7
08-083	5/29/93	0508	27°49.50	91°30.07	T-7	14-141*	5/25/93	0050	29°22.00	87°30.00	T-7
08-084	5/29/93	0447	27°52.00	91°29.99	T-7	14-142	5/25/93	0025	29°24.55	87°29.94	T-10
08-085	5/29/93	0438	27°52.99	91°29.89	T-10						

Table 2. Cruise 05 CTD Station Positions

Station	Date	Time	Latitude	Longitude	Station	Date	Time	Latitude	Longitude
03-021	6/03/93	0432	27°56.04	94°49.95	08-080	5/29/93	0819	27°25.97	91°30.06
03-026	6/02/93	2352	27°26.07	94°49.99	08-086	5/29/93	0215	28°07.52	91°30.03
03-029	6/02/93	1733	26°45.93	94°50.03	09-087	5/28/93	2221	28°09.09	90°50.09
03-030	6/02/93	1135	26°16.99	94°49.99	09-093	5/28/93	1520	27°26.00	90°50.05
04-031	6/02/93	0722	26°17.02	94°10.00	09-096	5/28/93	0909	26°44.66	90°50.13
04-033	6/02/93	0232	26°46.00	94°09.98	10-097	5/28/93	0355	27°09.87	90°10.03
04-036	6/01/93	2020	27°26.02	94°09.98	10-100	5/27/93	2230	27°45.70	90°10.40
04-042	6/01/93	1350	27°54.07	94°10.15	10-105	5/27/93	1747	28°16.04	90°10.09
05-043	6/01/93	1010	27°59.93	93°30.00	11-106	5/27/93	1010	28°45.07	89°30.12
05-047	6/01/93	0432	27°26.02	93°29.98	11-112	5/27/93	0421	28°06.29	89°29.98
05-050	5/31/93	2224	26°46.01	93°29.99	11-115	5/26/93	2216	27°26.97	89°30.03
05-053	5/31/93	1645	26°09.98	93°30.07	12-116	5/26/93	1748	27°26.09	88°49.94
06-054	5/31/93	1225	26°13.95	92°49.94	12-117	5/26/93	1412	27°49.97	88°50.03
06-055	5/31/93	0719	26°46.03	92°50.03	12-119	5/26/93	0749	28°26.03	88°49.99
06-059	5/31/93	0109	27°25.94	92°50.00	12-125	5/26/93	0153	29°06.49	88°50.04
06-064	5/30/93	1934	28°01.98	92°50.08	13-126	5/25/93	2159	29°16.56	88°10.08
07-065	5/30/93	1540	28°02.01	92°10.00	13-133	5/25/93	1624	28°46.16	88°09.97
07-071	5/30/93	0946	27°26.02	92°10.00	13-134	5/25/93	1430	28°37.00	88°10.23
07-073	5/30/93	0104	26°45.93	92°10.00	14-135	5/25/93	0857	28°30.98	87°29.88
07-075	5/29/93	2028	26°17.02	92°10.06	14-136	5/25/93	0558	28°45.77	87°30.00
08-076	5/29/93	1538	26°36.91	91°29.82	14-143	5/24/93	2339	29°27.00	87°30.15

APPENDIX B:
TEMPERATURE AND SALINITY

Figure 2. Sea surface temperature (°C) : XBT versus MIDAS

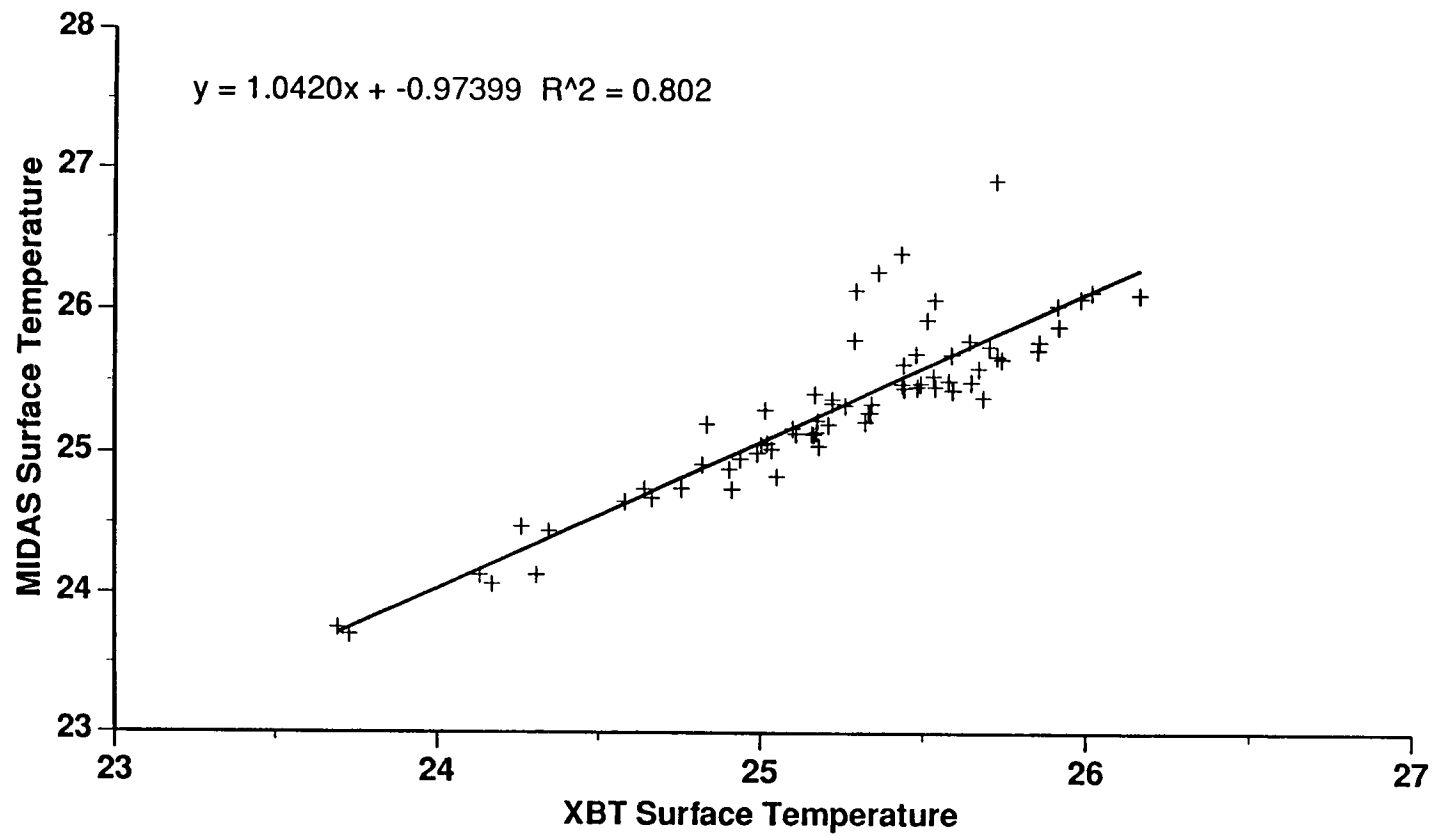


Figure 3. Sea surface temperature (°C) : CTD versus MIDAS

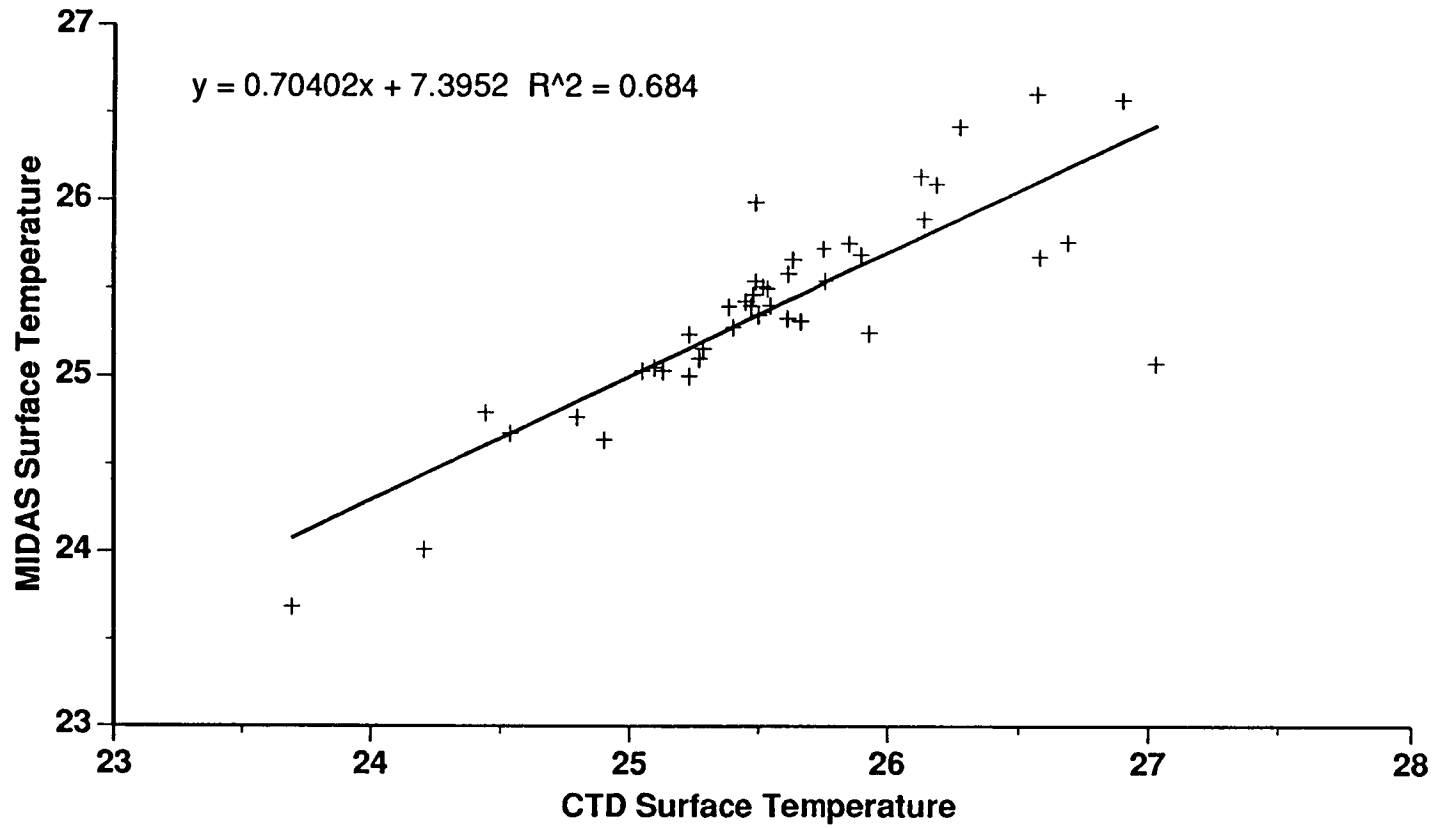


Figure 4. CTD station 05-050 temperature versus XBT station 05-051
(2.91 miles separation between stations)

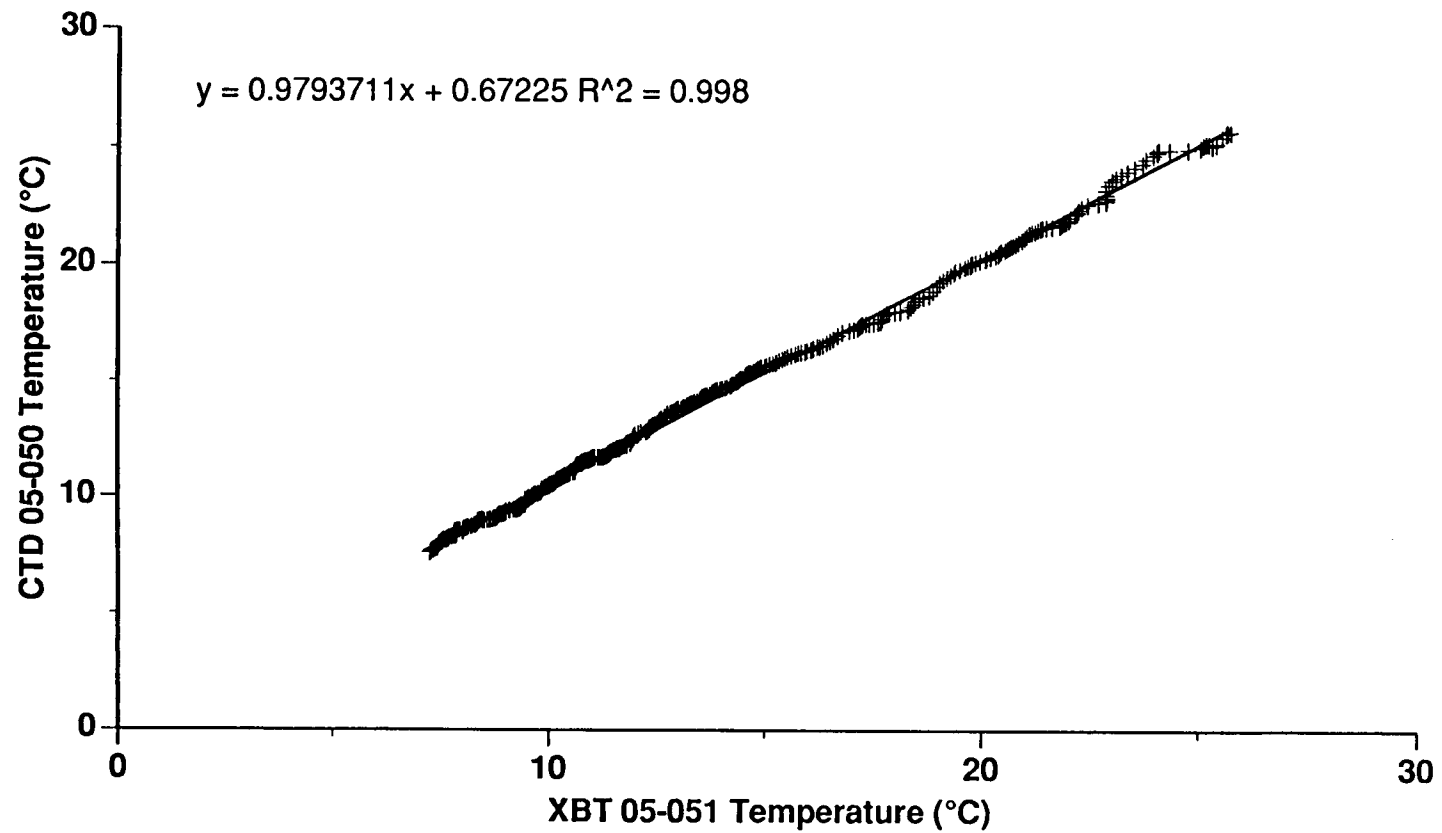


Figure 5. Bottle Salinity versus CTD Salinity

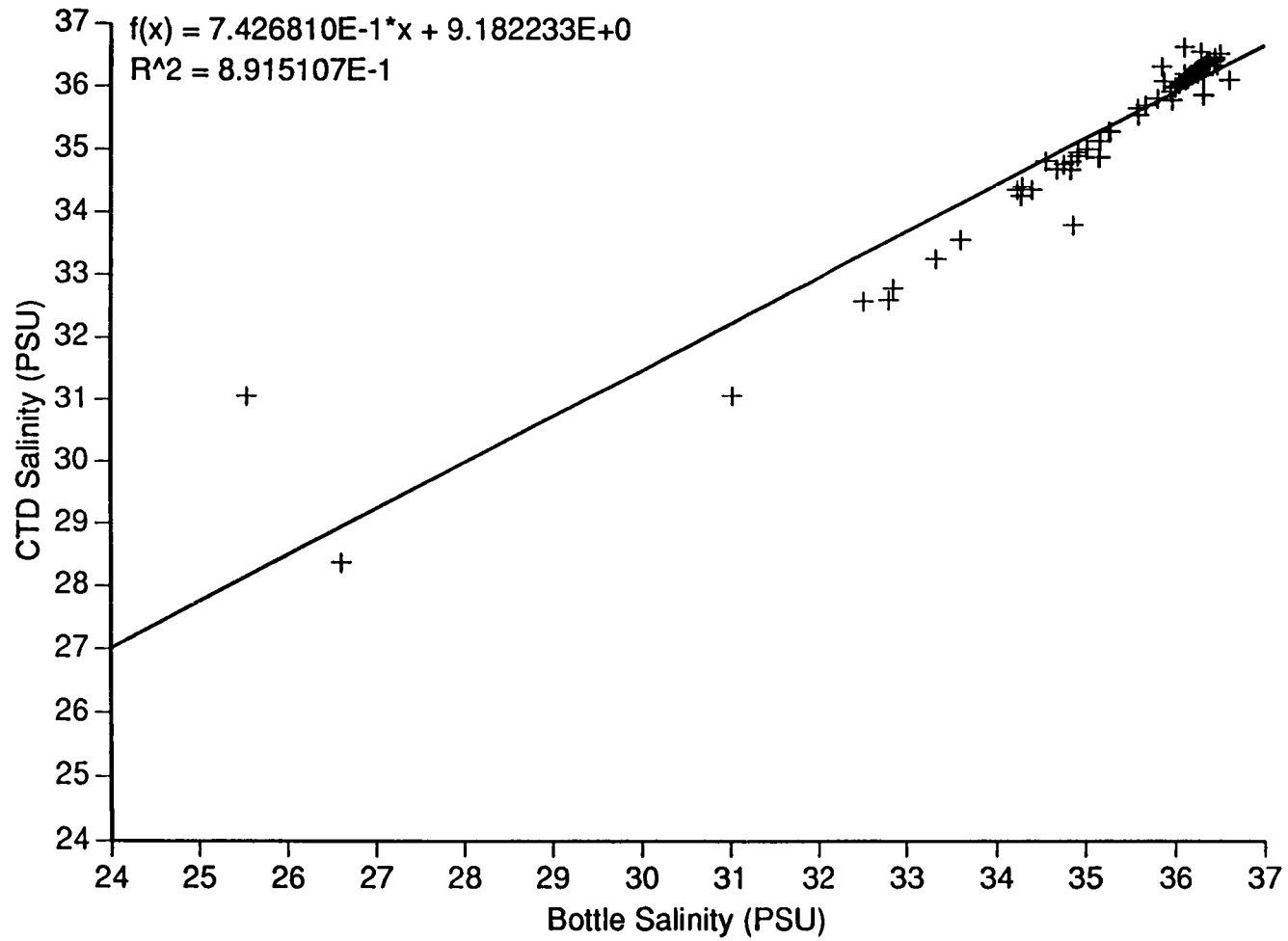
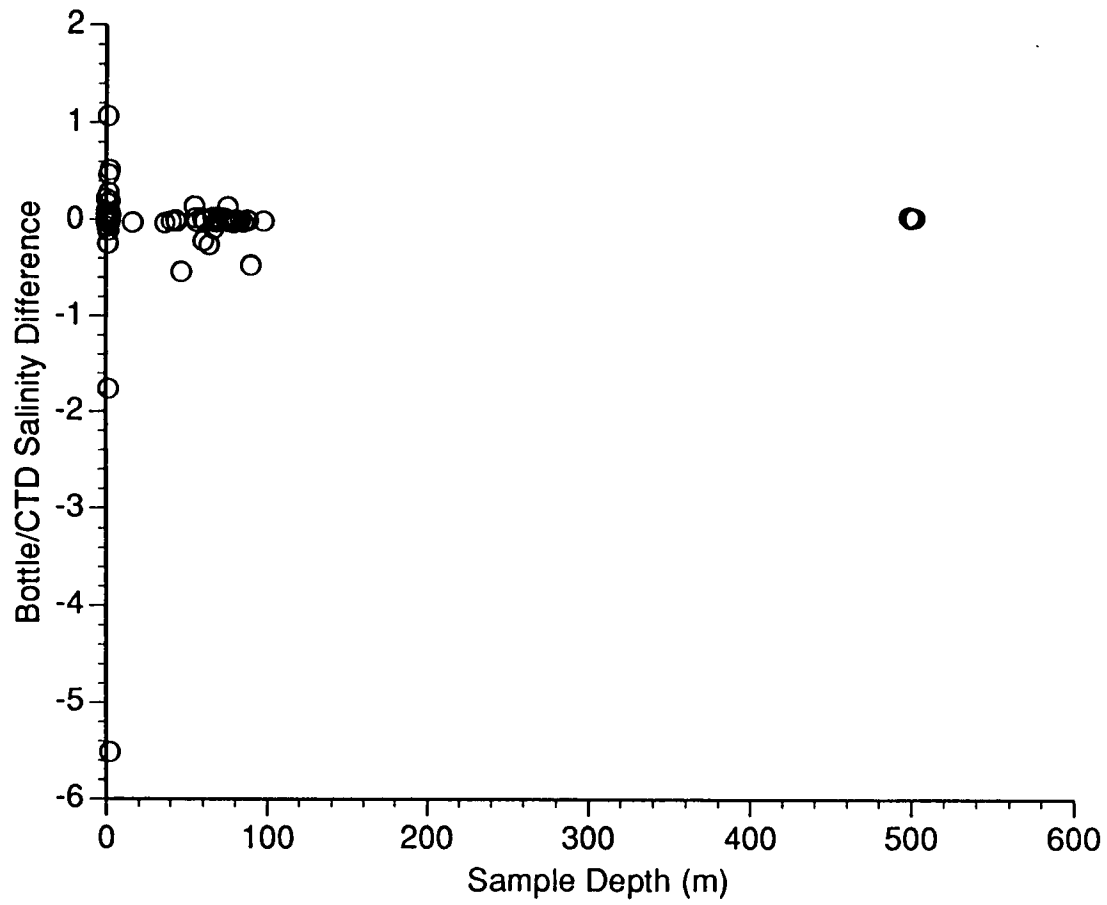


Figure 6. Sample Depth versus Bottle/CTD Salinity Difference





The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.